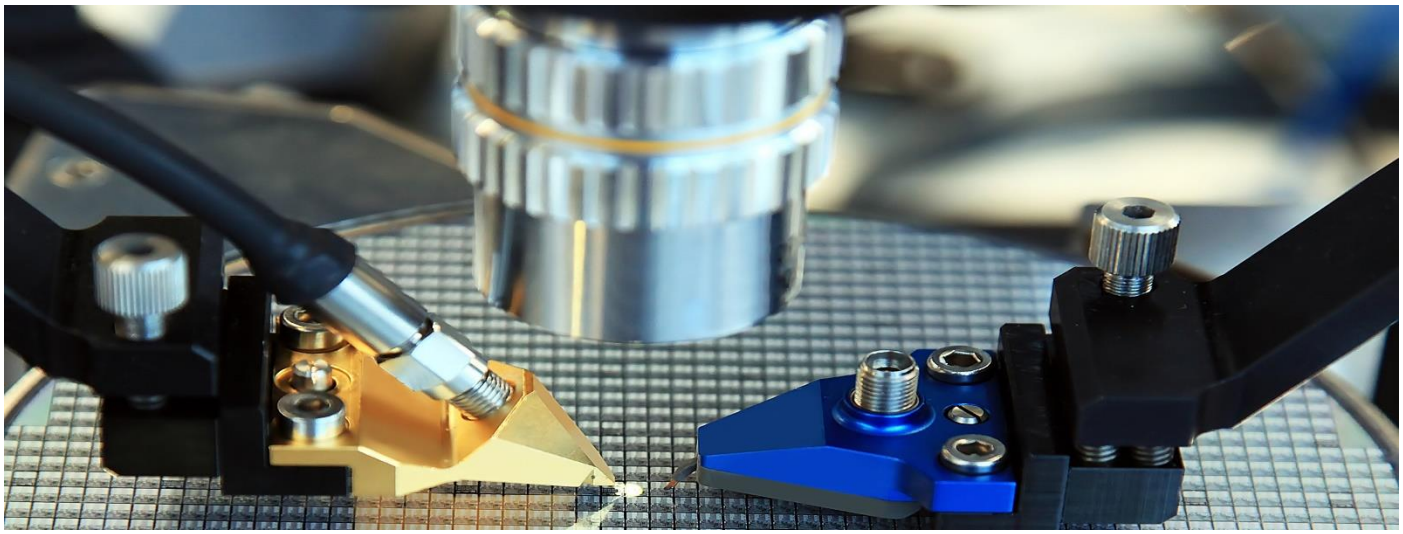

ATEK MIDAS PRODUCTS CATALOGUE

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ATEK MIDAS

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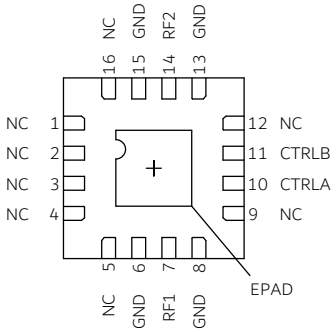
SWITCHES

SPST

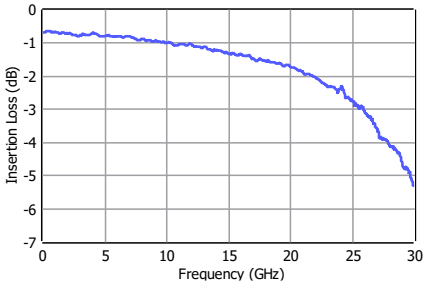
ATEK254N3 LF - 24 GHz Absorptive SPST Switch

Product Features

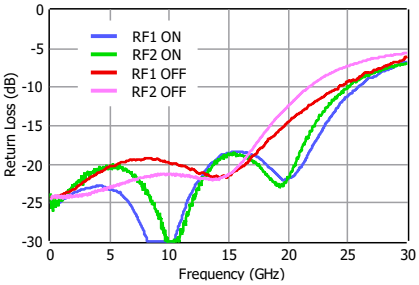
- Frequency Range: LF - 24 GHz
- Insertion Loss: 1.8 dB at 20 GHz
- IIP3: 49 dBm at 10 GHz
- 3x3 mm compact size



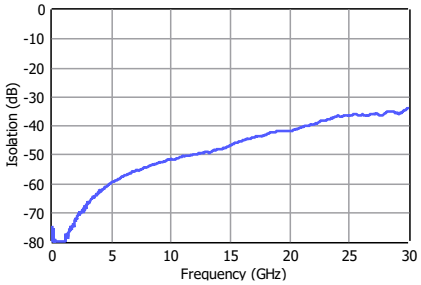
Insertion Loss



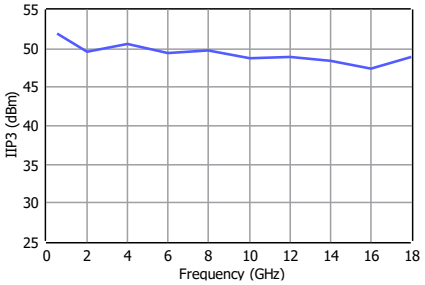
Return Loss



Isolation



Input IP3



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SWITCHES

SPDT

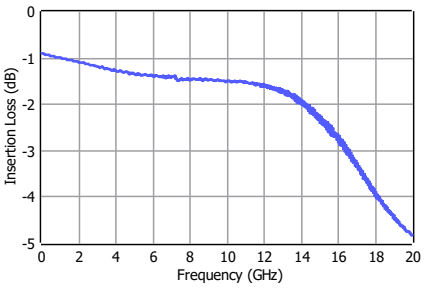
ATEK250

LF - 14 GHz Absorptive SPDT Switch

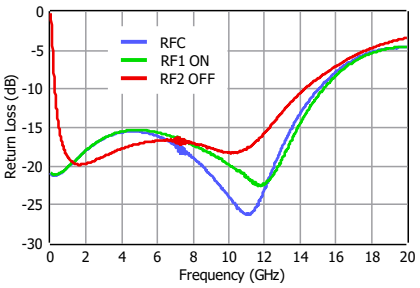
Product Features

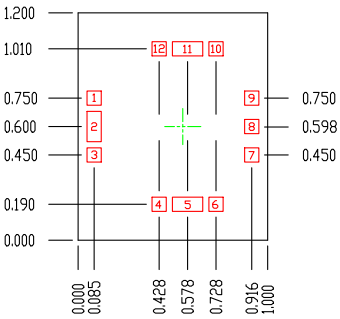
- Frequency Range: LF - 14 GHz
- Insertion Loss: 1.5 dB
- Positive Supply
- Positive Control
- IIP3: 44 dBm

Insertion Loss



Return Loss





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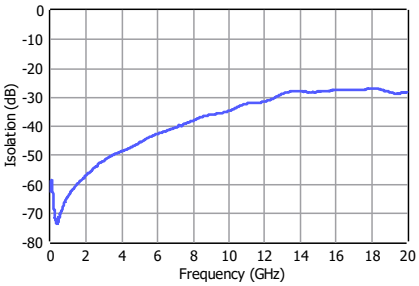
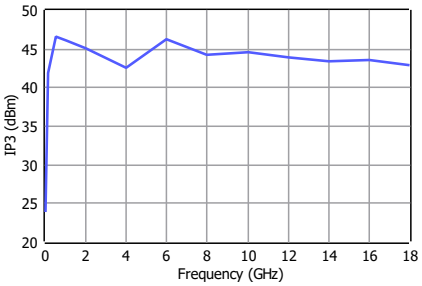


Input IP3, Wideband



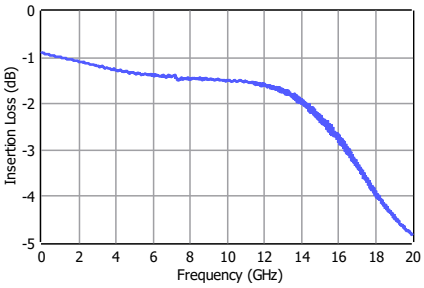
ATEK250P3

LF - 14 GHz Absorptive SPDT Switch

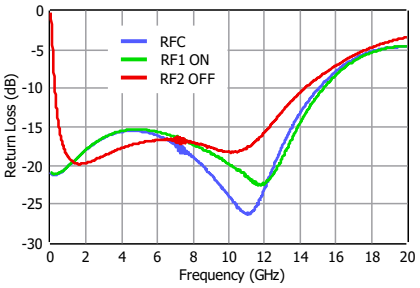
Product Features

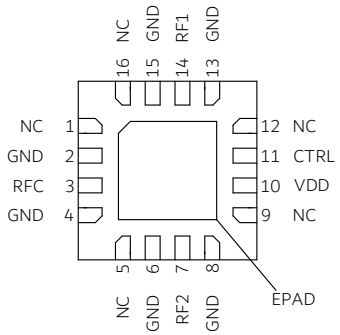
- Frequency Range: LF - 14 GHz
- Insertion Loss: 1.5 dB
- Positive Supply
- Positive Control
- IIP3: 44 dBm
- 3x3 mm compact size

Insertion Loss



Return Loss





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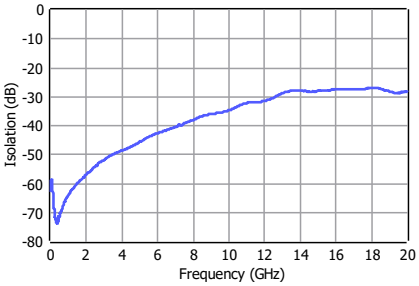
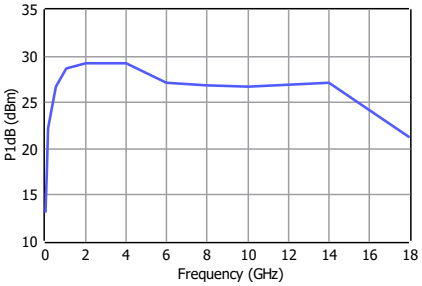


Input IP3 Wideband



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SWITCHES

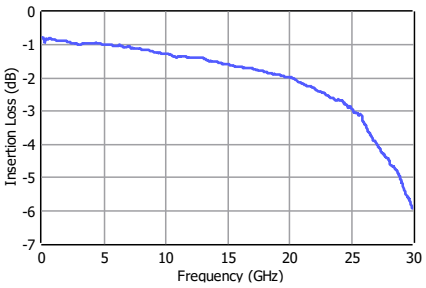
SPDT

ATEK252N3 LF - 24 GHz Absorptive SPDT Switch

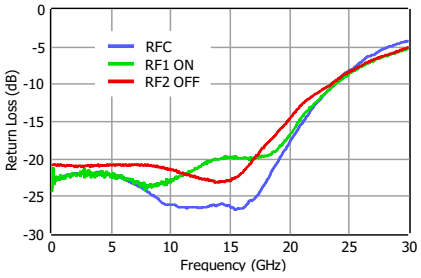
Product Features

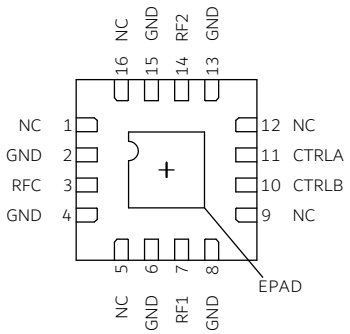
- Frequency Range: LF - 24 GHz
- Insertion Loss: 2 dB at 20 GHz
- IP1dB: 25 dBm @ 10 GHz
- IIP3: 46 dBm @ 10 GHz
- 3x3 mm compact size

Insertion Loss



Return Loss





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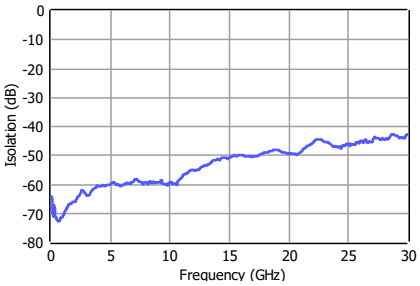
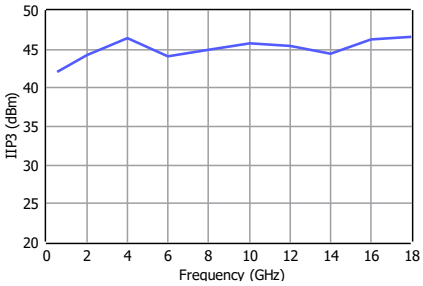


Input IP3

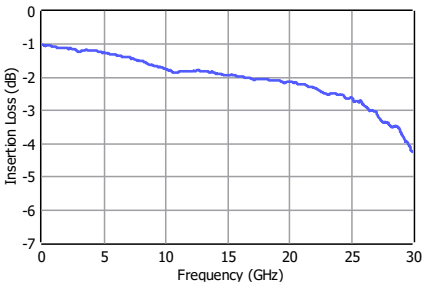


ATEK252P3 LF - 27 GHz Absorptive SPDT Switch

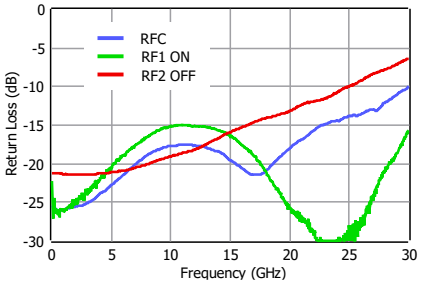
Product Features

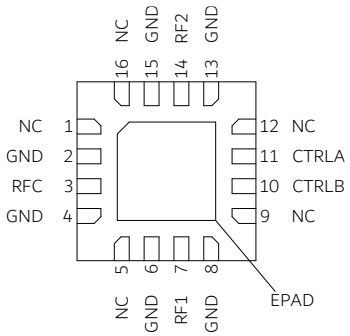
- Frequency Range: LF - 27 GHz
- Insertion Loss: 2.1 dB at 20 GHz
- Single Supply
- IP1dB: 26 dBm @ 10 GHz
- IIP3: 47 dBm @ 10 GHz
- 3x3 mm compact size

Insertion Loss



Return Loss





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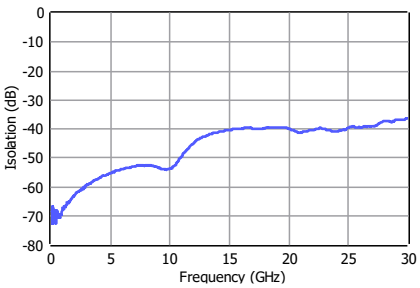
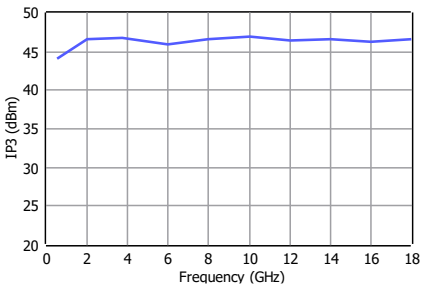


Input IP3



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SWITCHES

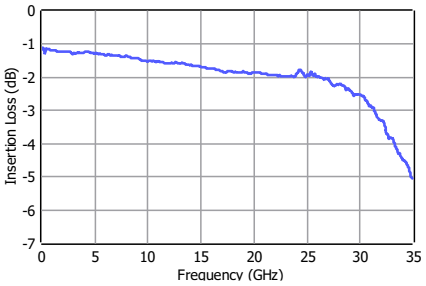
SPDT

ATEK253N3 LF - 32 GHz Absorptive SPDT Switch

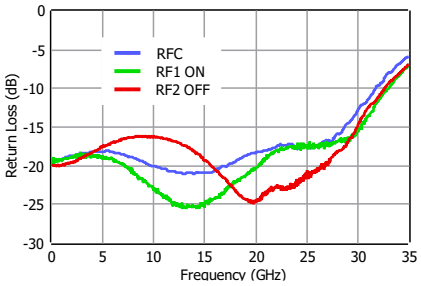
Product Features

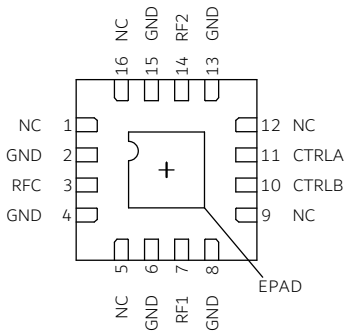
- Frequency Range: LF - 32 GHz
- Insertion Loss: 1.8 dB at 20 GHz
- IIP3: 40 dBm at 10 GHz
- Single Supply
- 3x3 mm compact size

Insertion Loss

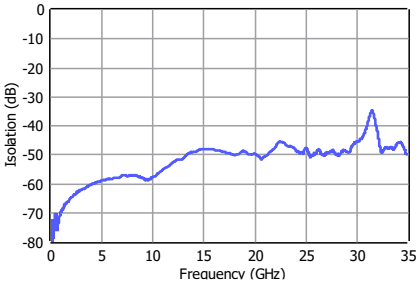


Return Loss

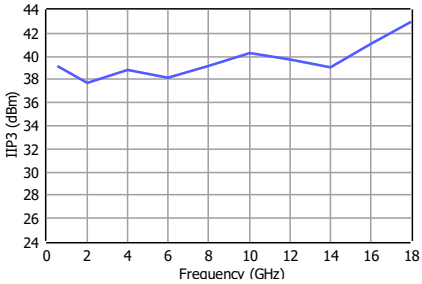




Isolation



Input IP3

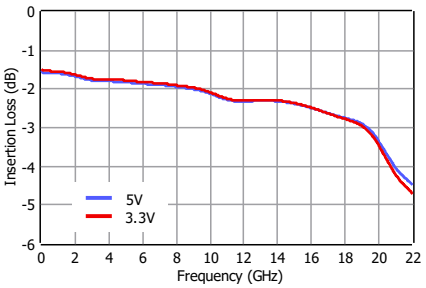


ATEK256P3 LF - 18 GHz Absorptive SPDT Switch

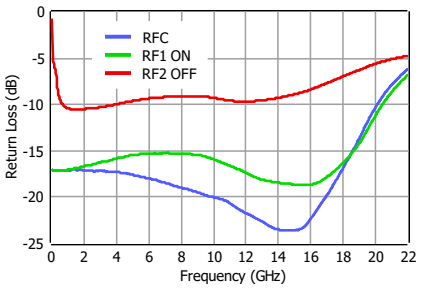
Product Features

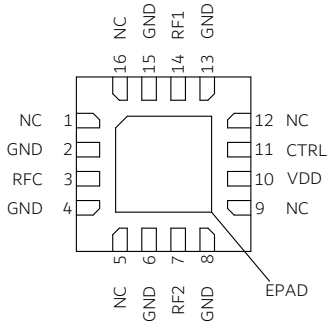
- Frequency Range: LF - 18 GHz
- Insertion Loss: 2.2 dB at 10 GHz
- Positive Supply
- Positive Control
- 3x3 mm compact size

Insertion Loss

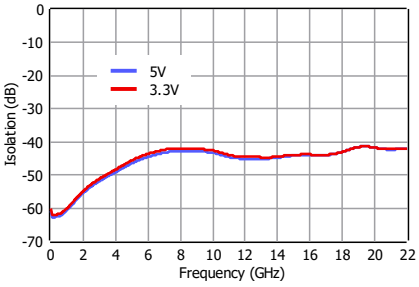


Return Loss





Isolation



IP3

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SWITCHES

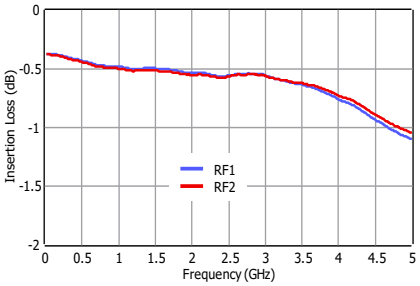
SPDT

ATEK260P3 LF – 4 GHz Absorptive SPDT Switch

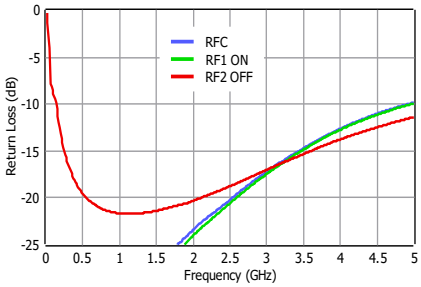
Product Features

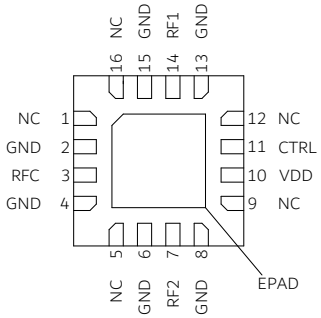
- Frequency Range: LF - 4 GHz
- Insertion Loss: 0.6 dB
- Positive Supply
- Positive Control
- 3x3 mm compact size

Insertion Loss

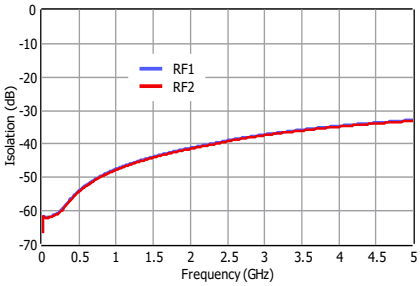


Return Loss

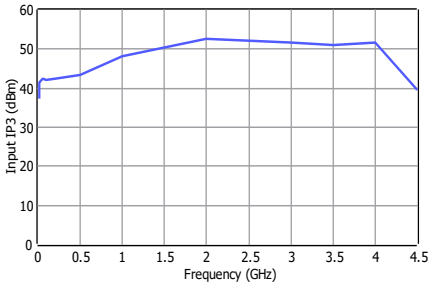




Isolation



Input IP3

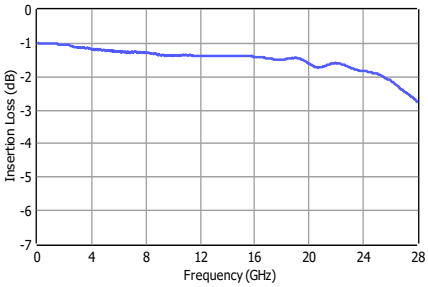


ATEK263N3 LF - 28 GHz Reflective SPDT Switch

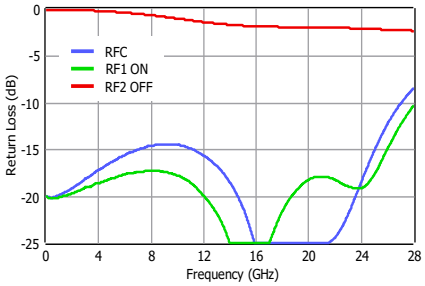
Product Features

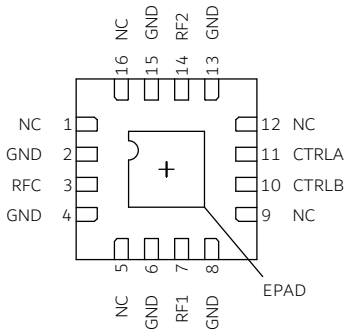
- Frequency Range: LF - 28 GHz
- Insertion Loss: 1.4 dB at 12 GHz
- Single Supply
- 3x3 mm compact size

Insertion Loss

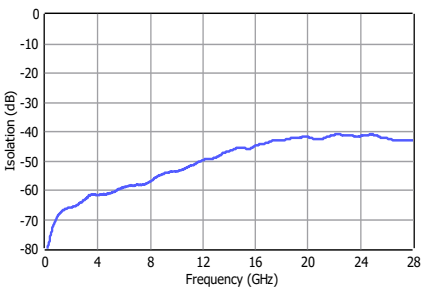


Return Loss





Isolation



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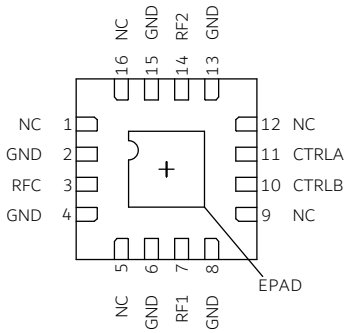
SWITCHES

SPDT

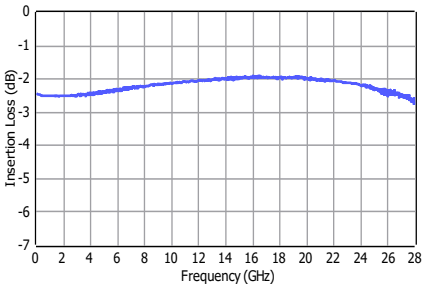
ATEK267N3 LF - 28 GHz Positive Slope Absorptive SPDT Switch

Product Features

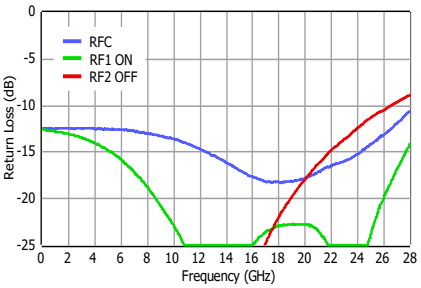
- Frequency Range: LF – 28 GHz
- Insertion Loss: 2 dB at 12 GHz
- Input IP3: 35 dBm at 12 GHz
- Single Supply
- 3x3 mm compact size



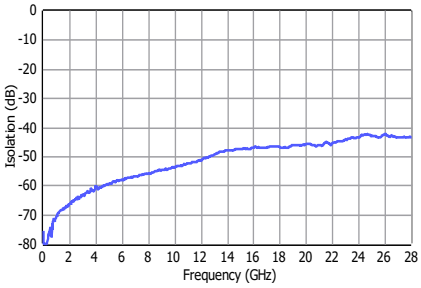
Insertion Loss



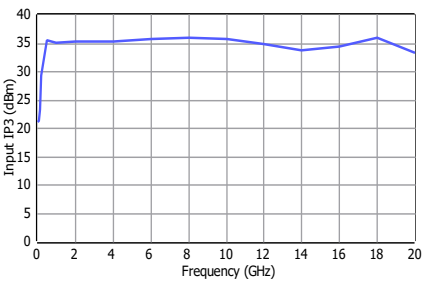
Return Loss



Isolation



Input IP3



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SWITCHES

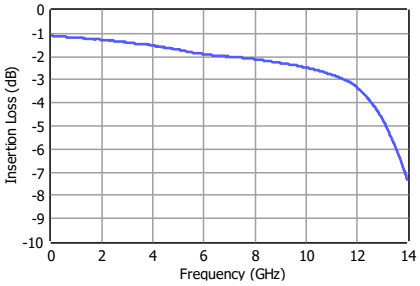
SP4T

ATEK255P4 LF - 12 GHz Absorptive SP4T Switch

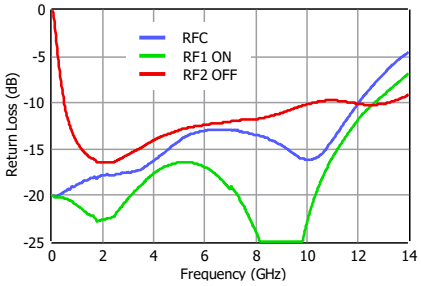
Product Features

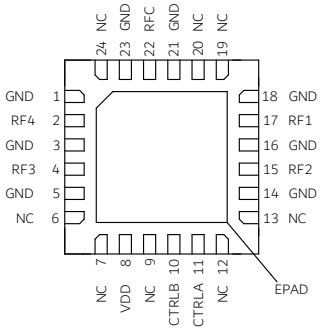
- Frequency Range: LF - 12 GHz
- Insertion Loss: 2.2 dB at 6 GHz
- Positive Supply
- Positive Control
- IIP3: 45 dBm
- 4x4 mm compact size

Insertion Loss

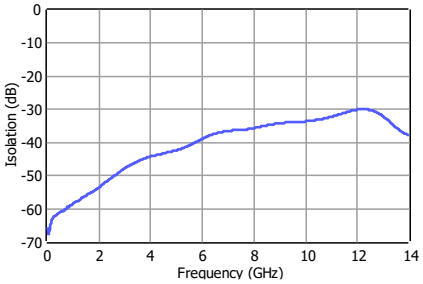


Return Loss

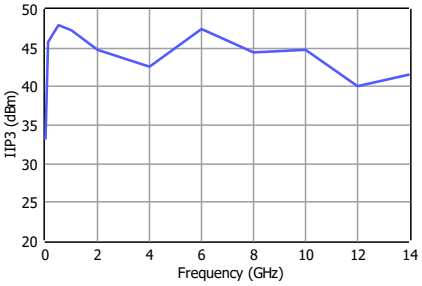




Isolation



Input IP3

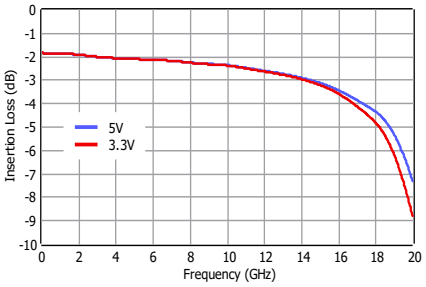


ATEK257P4 LF - 16 GHz Reflective SP4T Switch

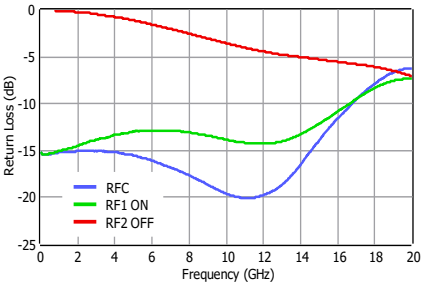
Product Features

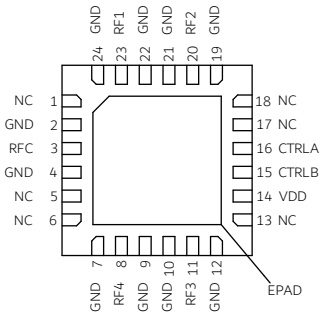
- Frequency Range: LF - 16 GHz
- Insertion Loss: 2.4 dB at 10 GHz
- Positive Supply
- Positive Control
- 4x4 mm compact size

Insertion Loss

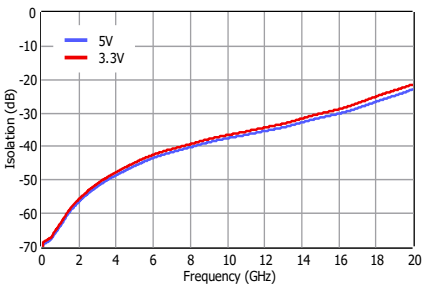


Return Loss





Isolation



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SWITCHES

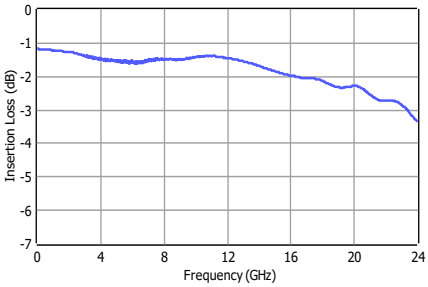
SP4T

ATEK264N4 LF - 24 GHz Reflective SP4T Switch

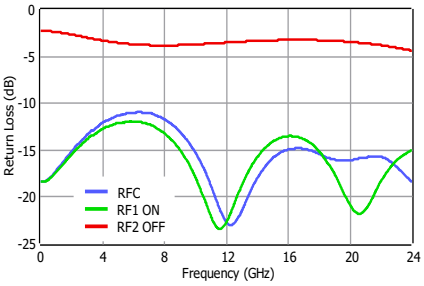
Product Features

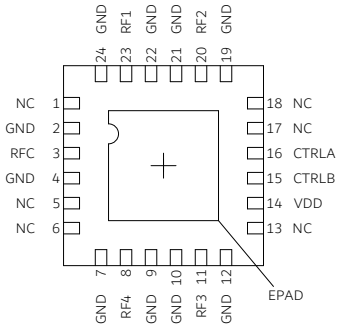
- Frequency Range: LF - 24 GHz
- Insertion Loss: 1.5 dB at 12 GHz
- IIP3: 43 dBm at 10 GHz
- Single Supply
- 4x4 mm compact size

Insertion Loss

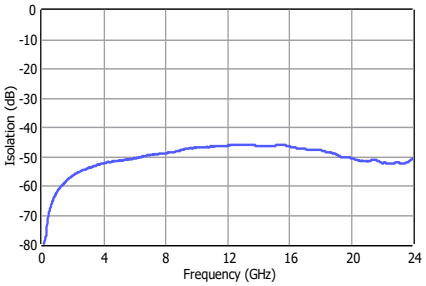


Return Loss

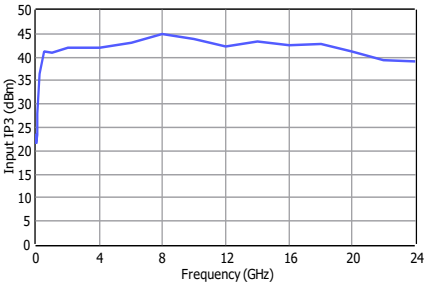




Isolation



Input IP3

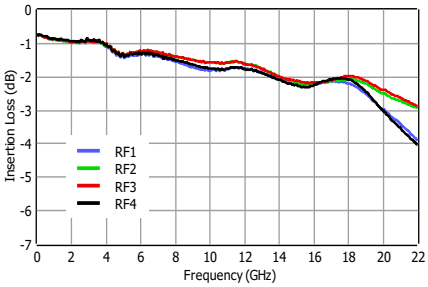


ATEK266 LF - 20 GHz Absorptive SP4T Switch

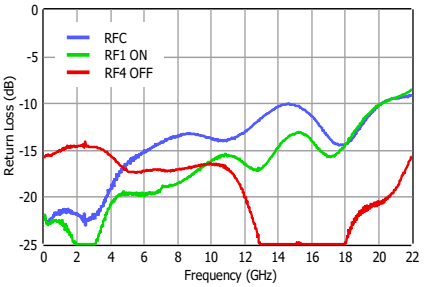
Product Features

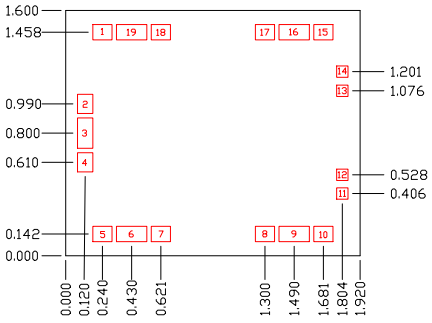
- Frequency Range: LF - 20 GHz
- Insertion Loss: 1.7 dB at 10 GHz
- IIP3: 36 dBm at 10 GHz
- Single Supply

Insertion Loss

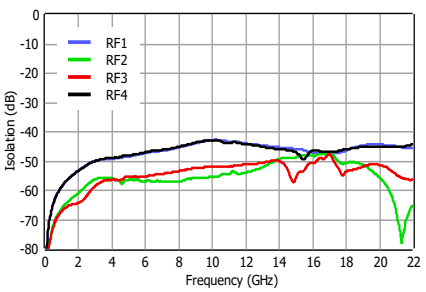


Return Loss

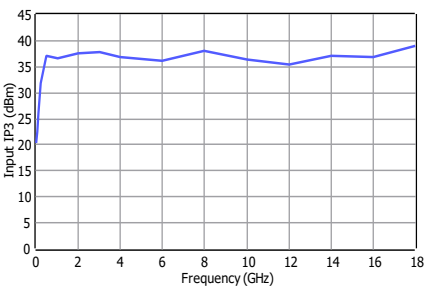




Isolation



Input IP3



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SWITCHES

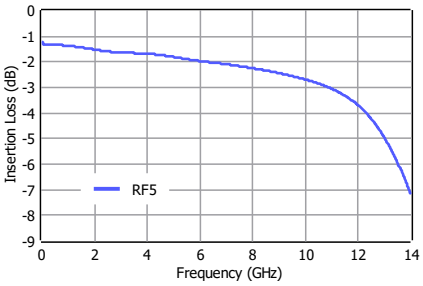
SP8T

ATEK258P4 LF - 12 GHz Absorptive SP8T Switch

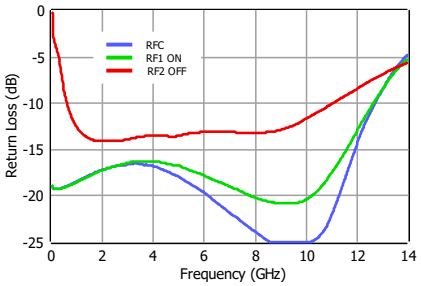
Product Features

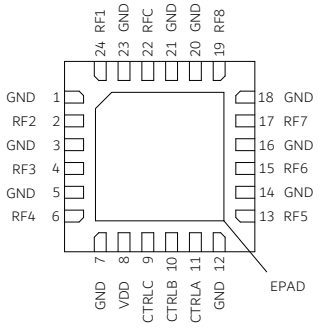
- Frequency Range: LF - 12 GHz
- Insertion Loss: 2 dB at 6 GHz
- Positive Supply
- Positive Control
- 4x4 mm compact size

Insertion Loss

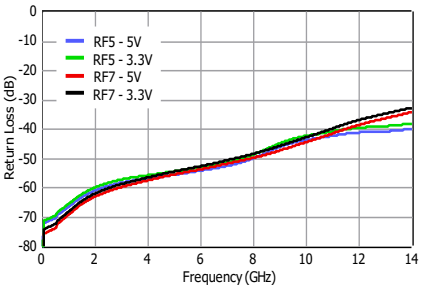


Return Loss

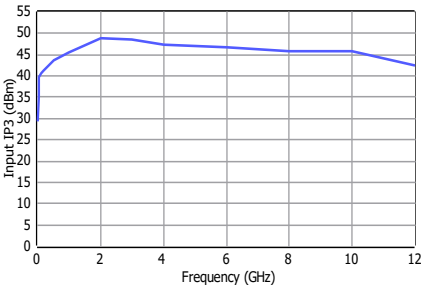




Isolation



Input IP3

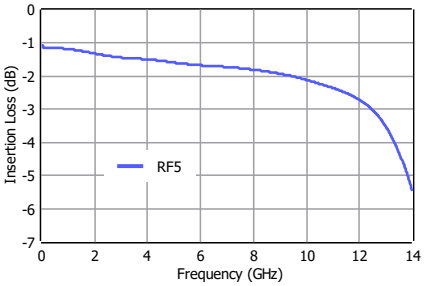


ATEK259P4 LF - 12 GHz Reflective SP8T Switch

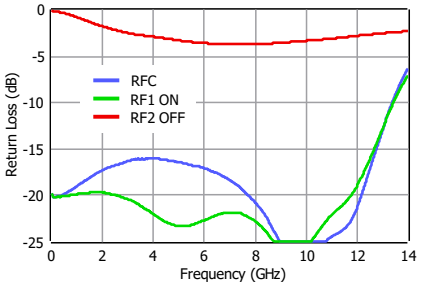
Product Features

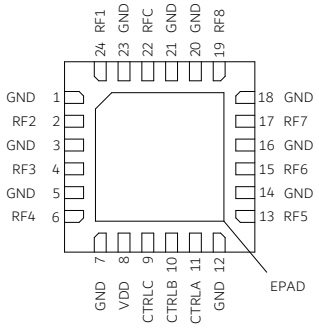
- Frequency Range: LF - 12 GHz
- Insertion Loss: 1.7 dB at 6 GHz
- Positive Supply
- Positive Control
- 4x4 mm compact size

Insertion Loss

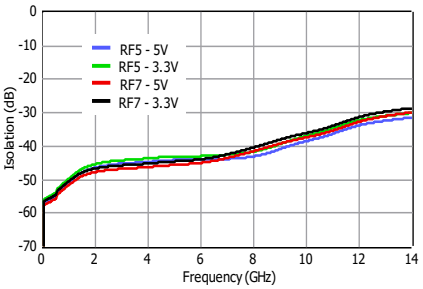


Return Loss

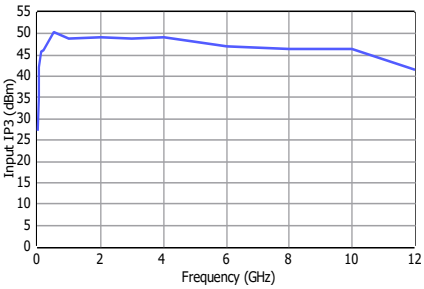




Isolation



Input IP3



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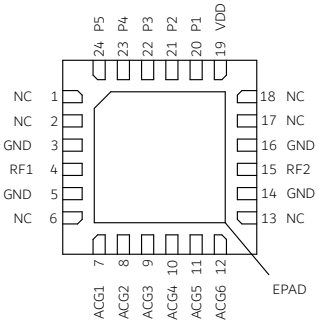
ATTENUATORS

DSA

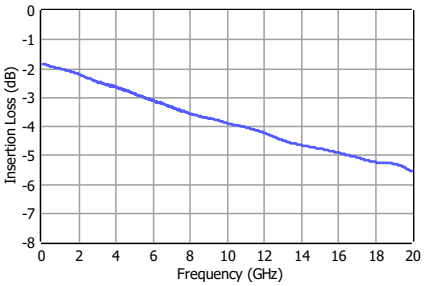
ATEK357P4 LF - 20 GHz, 1 dB LSB, 5-Bit, 31 dB Digital Attenuator

Product Features

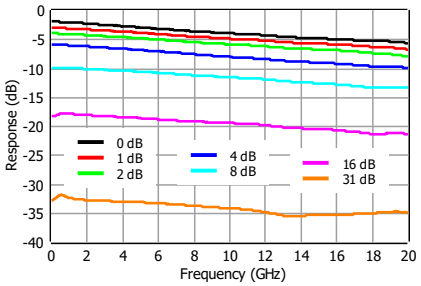
- Frequency Range: LF - 20 GHz
- Insertion Loss: 3.9 dB at 10 GHz
- Attenuation Range: 31 dB
- Positive Supply
- Positive Control
- IIP3: 44 dBm
- 4x4 mm compact size



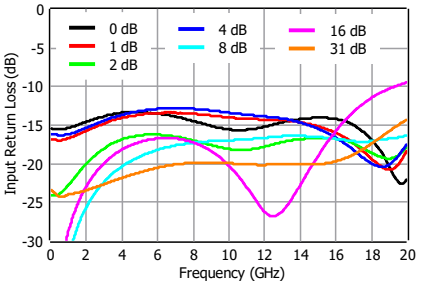
Insertion Loss



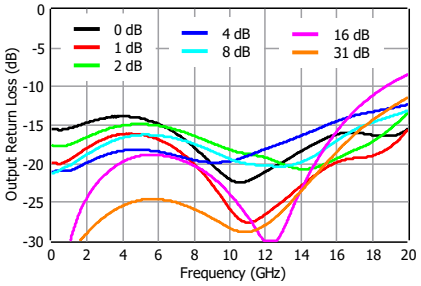
Insertion Loss vs. Attenuation State



Input Return Loss



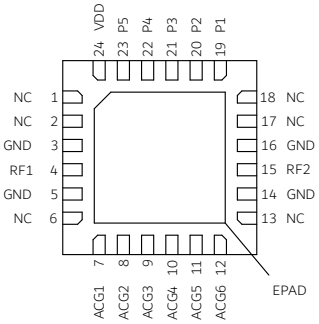
Output Return Loss



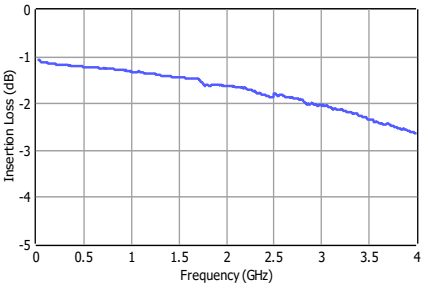
ATEK359P4 0.5 – 4 GHz, 1 dB LSB, 5-Bit, 31 dB Digital Attenuator

Product Features

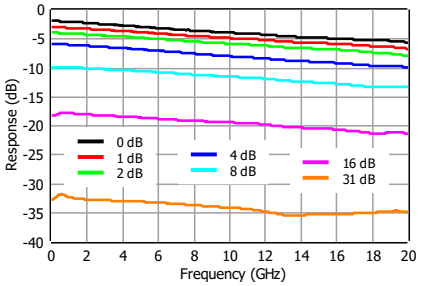
- Frequency Range: 0.5 – 4 GHz
- Insertion Loss: 1.8 dB at 2.4 GHz
- Attenuation Range: 31.5 dB at 2.4 GHz
- Positive Supply
- Positive Control
- 4x4 mm compact size



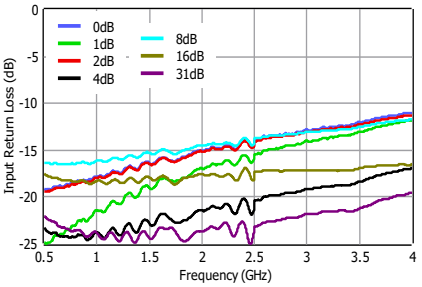
Insertion Loss



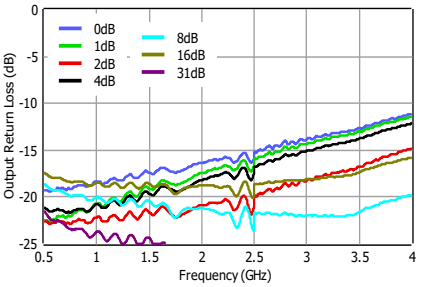
Insertion Loss vs. Attenuation State



Input Return Loss



Output Return Loss



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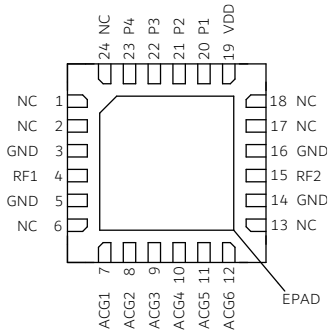
ATTENUATORS

DSA

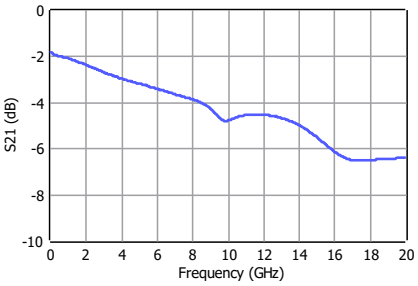
ATEK355P4 LF to 20 GHz, 3 dB LSB, 4-Bit, 45 dB Digital Attenuator

Product Features

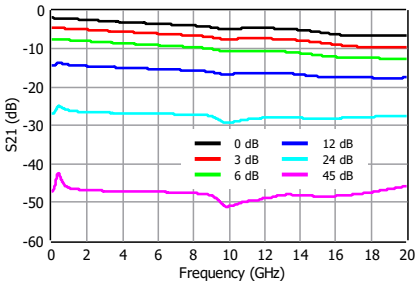
- Frequency Range: LF – 20 GHz
- Insertion Loss: 4 dB
- Attenuation Range: 45 dB
- Positive Supply
- Positive Control
- 4x4 mm compact size



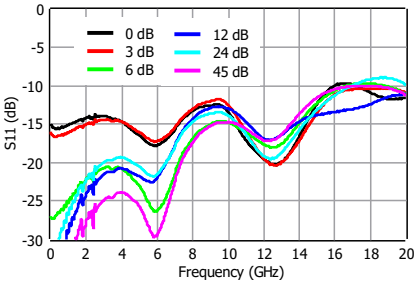
Insertion Loss



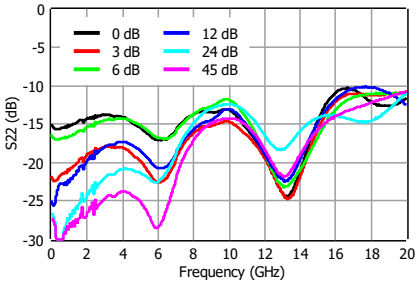
Insertion Loss vs. Attenuation State



Input Return Loss



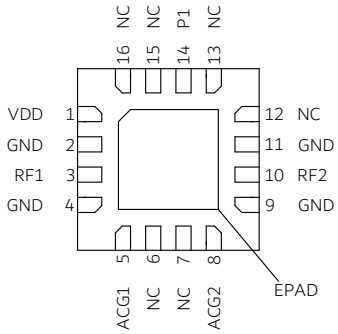
Output Return Loss



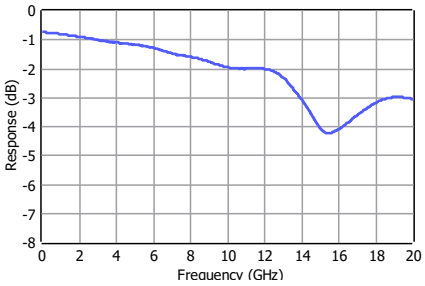
ATEK356P3 LF - 14 GHz, 1 Bit 9 dB Digital Step Attenuator

Product Features

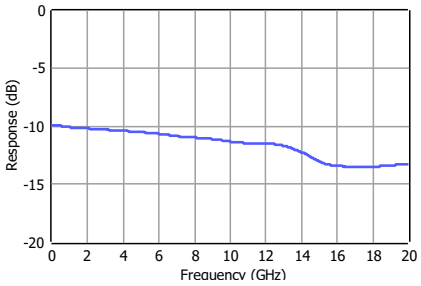
- Frequency Range: LF - 14 GHz
- Insertion Loss: 1.5 dB
- Attenuation Range: 9 dB
- Positive Supply
- Positive Control
- IIP3: 45 dBm
- 3x3 mm compact size



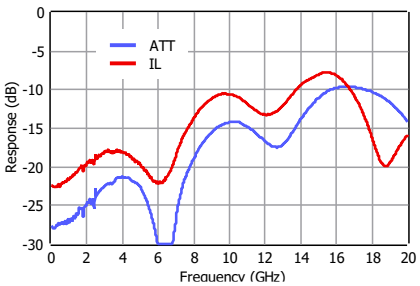
Insertion Loss



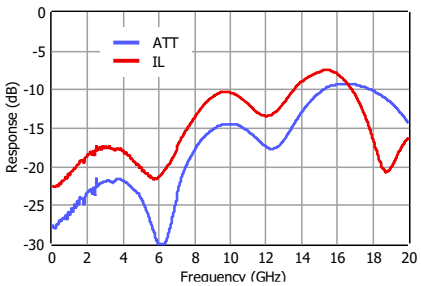
Insertion Loss vs. Attenuation State



Input Return Loss



Output Return Loss



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ATTENUATORS

DSA

ATEK360P4 LF – 20 GHz, 0.5 dB LSB, 5-Bit,16 dB Digital Attenuator

Product Features

- Frequency Range: LF – 20 GHz
- Attenuation Range: 16 dB
- Positive Supply
- Positive Control
- 4x4 mm compact size

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ATTENUATORS

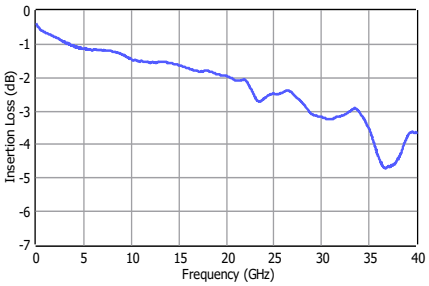
VVA

ATEK350N4 2 - 40 GHz 25 dB Voltage Variable Attenuator

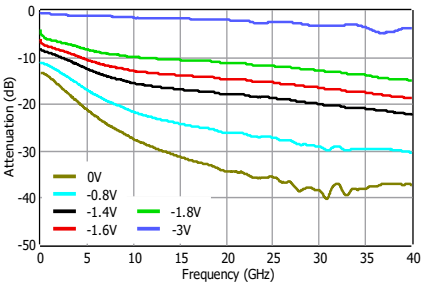
Product Features

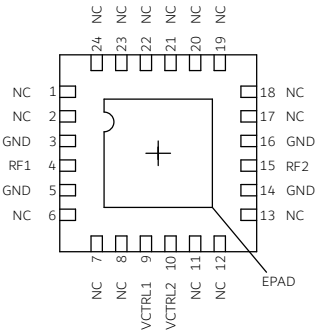
- Frequency Range: LF – 40 GHz
- Insertion Loss: 1.9 dB at 18 GHz
- Attenuation Range: 27 dB at 10 GHz
- IIP3: 33 dBm at 18 GHz
- 4x4 mm SMD Package

Insertion Loss

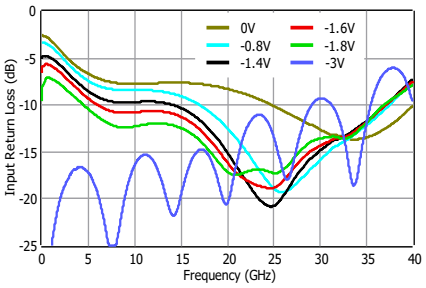


Attenuation States

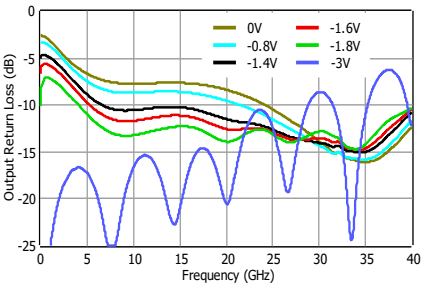




Input Return Loss



Output Return Loss

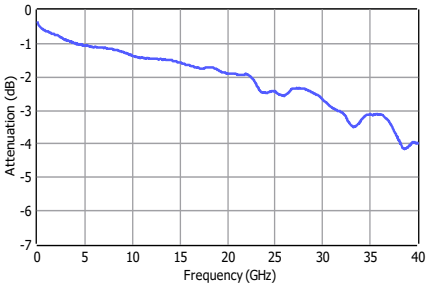


ATEK350AN4 2 - 40 GHz 40 dB Voltage Variable Attenuator

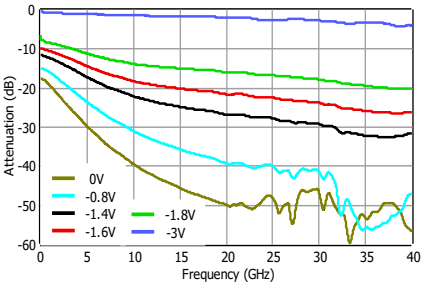
Product Features

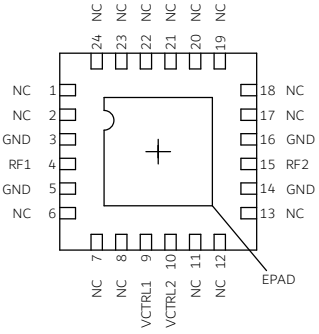
- Frequency Range: LF - 40 GHz
- Insertion Loss: 1.8 dB at 18 GHz
- Attenuation Range: 38 dB at 10 GHz
- IIP3: 30 dBm at 18 GHz
- 4x4 mm SMD Package

Insertion Loss

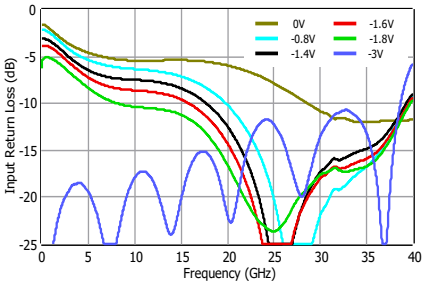


Attenuation States

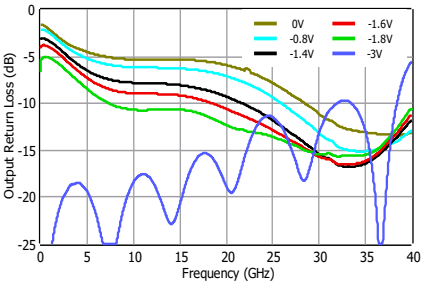




Input Return Loss



Output Return Loss



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ATTENUATORS

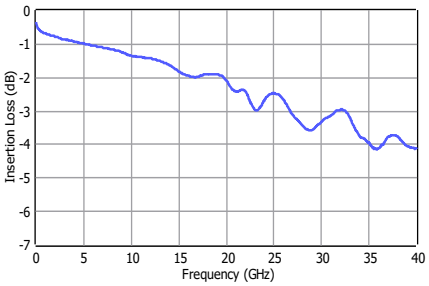
VVA

ATEK352N4 2 - 40 GHz 45 dB Voltage Variable Attenuator

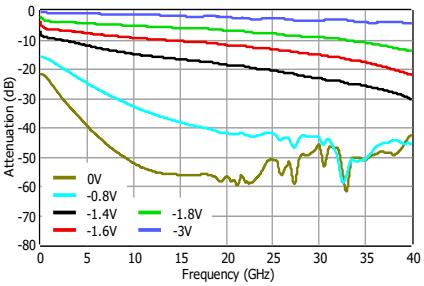
Product Features

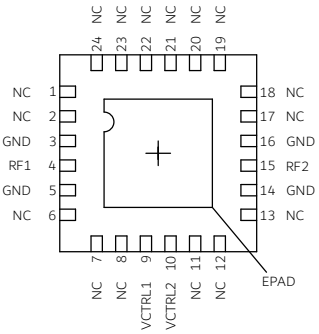
- Frequency Range: 2 – 40 GHz
- Insertion Loss: 1.8 dB at 18 GHz
- Attenuation Range: 54 dB at 18 GHz
- IIP3: 32 dBm at 18 GHz
- 4x4 mm SMD Package

Insertion Loss

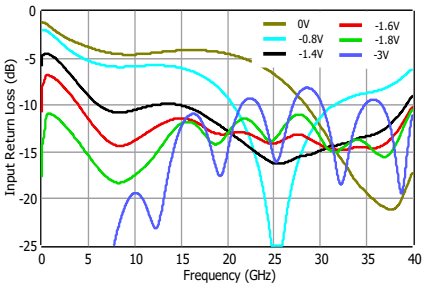


Attenuation States

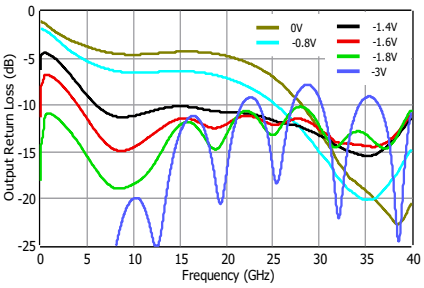




Input Return Loss



Output Return Loss

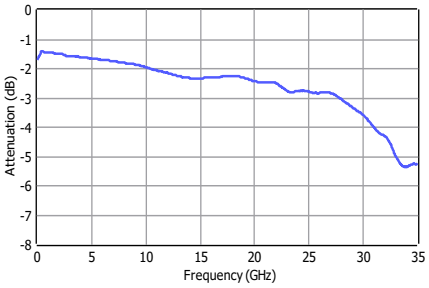


ATEK353N4 LF - 32 GHz 45 dB Voltage Variable Attenuator

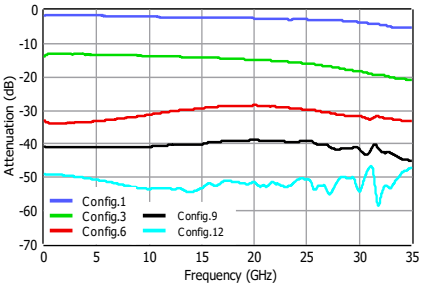
Product Features

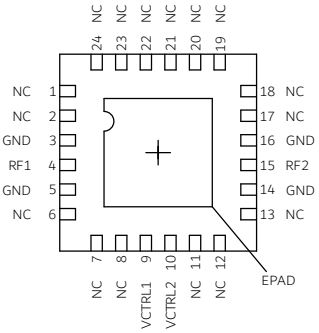
- Frequency Range: LF - 32 GHz
- Insertion Loss: 2 Db at 10 GHz
- Attenuation Range: 51 dB at 10 GHz
- 4x4 mm SMD Package

Insertion Loss

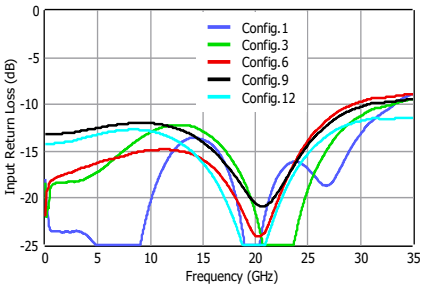


Attenuation

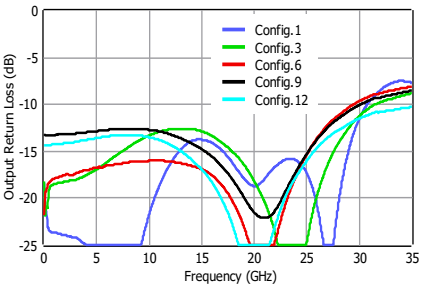




Input Return Loss



Output Return Loss



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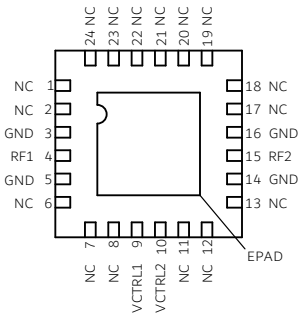
ATTENUATORS

VVA

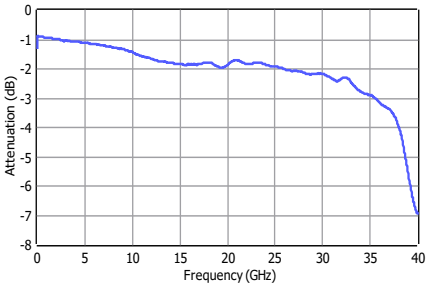
ATEK354N4 LF – 35 GHz 40 dB Voltage Variable Attenuator

Product Features

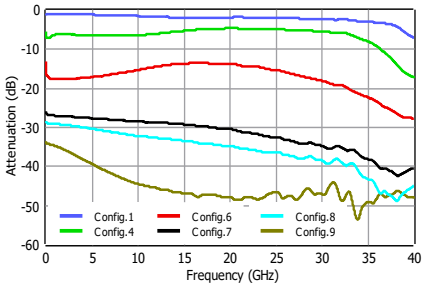
- Frequency Range: LF - 35 GHz
- Insertion Loss: 1.4 dB at 10 GHz
- Attenuation Range: 42 dB at 10 GHz
- 4x4 mm compact size



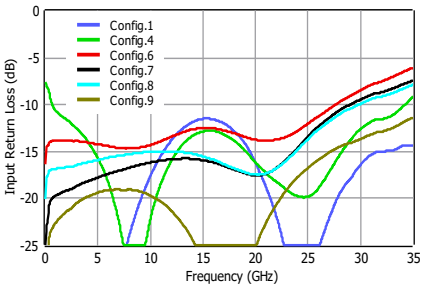
Insertion Loss



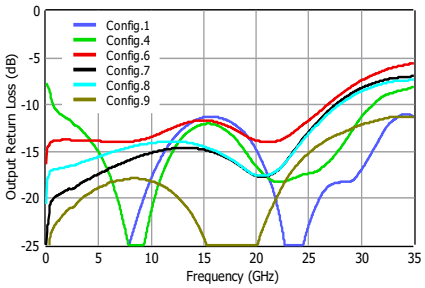
Attenuation



Input Return Loss



Output Return Loss



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AMPLIFIERS

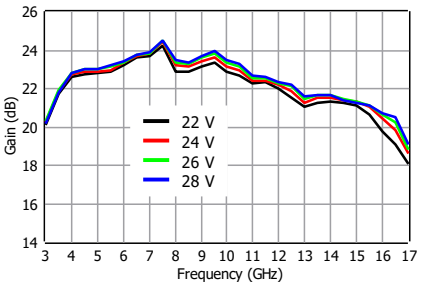
POWER AMPLIFIERS – HPA WB

ATEK552 3 – 17 GHz 6 W Power Amplifier

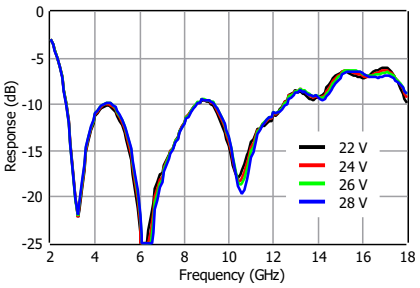
Product Features

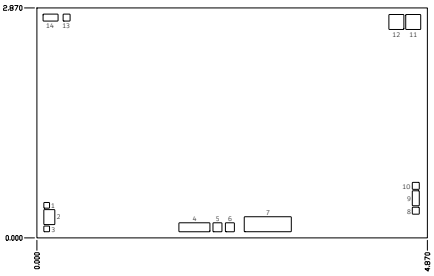
- Frequency Range: 3 - 17 GHz
- Gain: 21 dB
- Output Power: 38 dBm
- Input Return Loss: 10 dB
- 2.87x4.87 mm compact chip size

Gain vs. Vdd

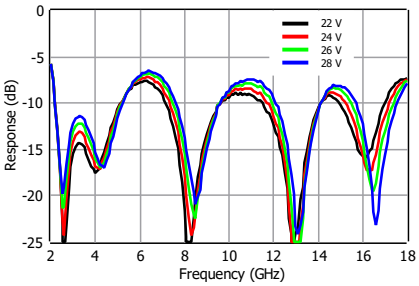


Input Return Loss

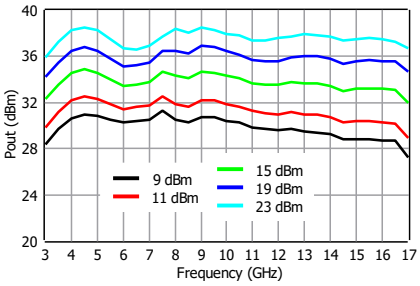




Output Return Loss



Pout vs. Pin

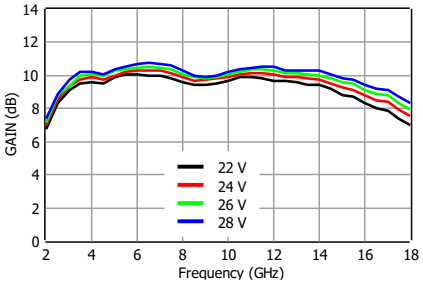


ATEK555 2 - 18 GHz 10 W Power Amplifier

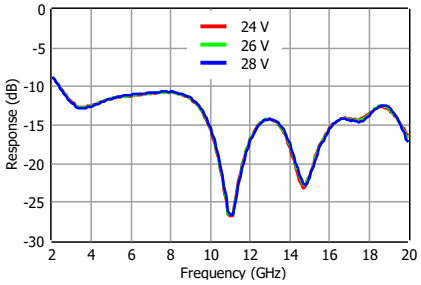
Product Features

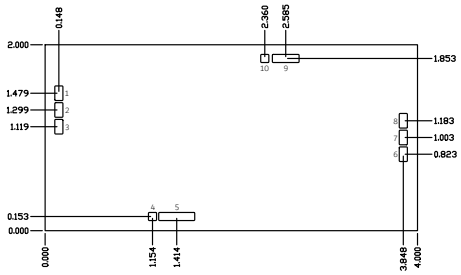
- Frequency Range: 2 – 18 GHz
- Gain: 10 dB
- Output Power: 40 dBm
- Output Return Loss: 14 dB
- Vdd: 28 V
- 2x4 mm compact chip size

Gain vs. Vdd

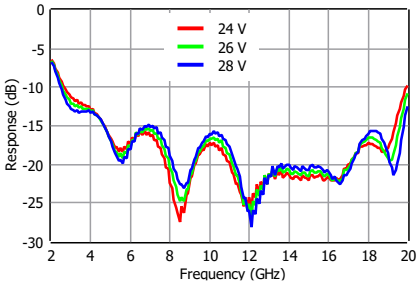


Input Return Loss

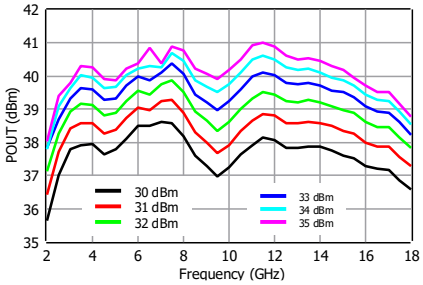




Output Return Loss



Pout vs. Pin



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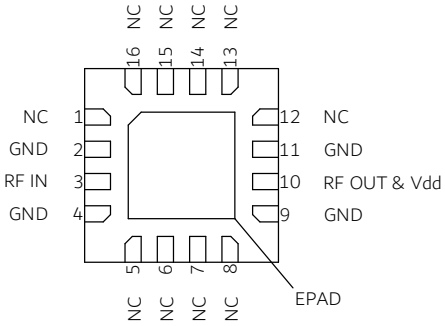
AMPLIFIERS

LOW NOISE AMPLIFIERS – LNA

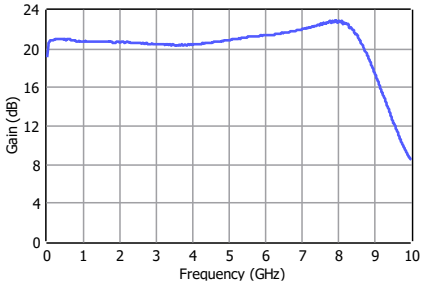
ATEK150P3 0.01 - 8 GHz Low Noise Amplifier

Product Features

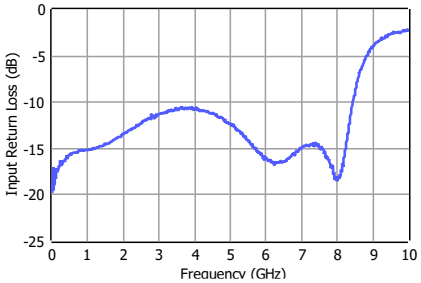
- Frequency Range: 0.01 – 8 GHz
- Gain: 21 dB
- Noise Figure: 1.5 dB
- OP1dB: 17 dBm
- Single Supply
- 3x3 mm compact size



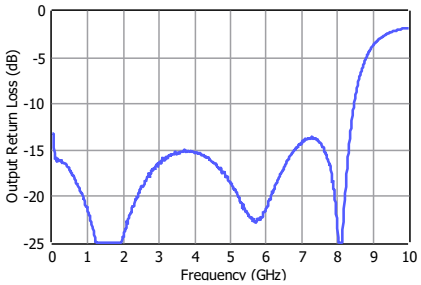
Gain



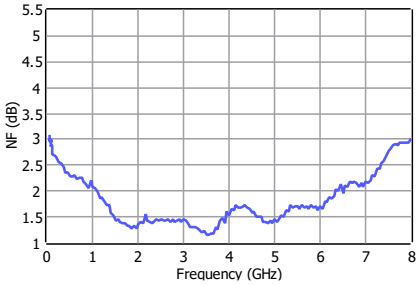
Input Return Loss



Output Return Loss



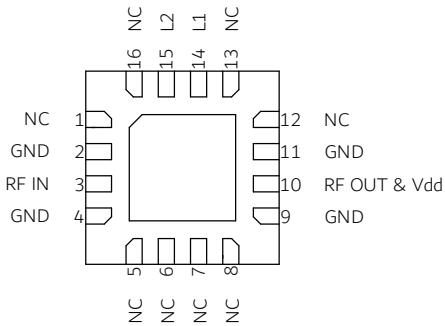
Noise Figure



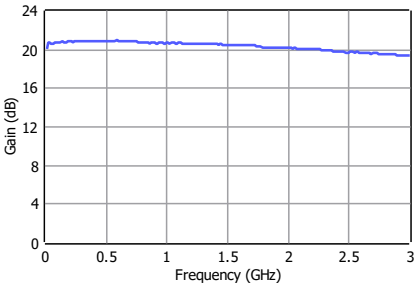
ATEK151P3 10 MHz to 3 GHz Low Noise Amplifier

Product Features

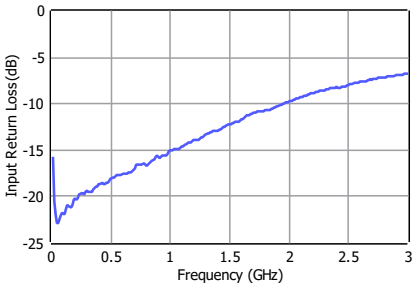
- Frequency Range: 10 MHz - 3 GHz
- Gain: 20 dB
- Noise Figure: 0.8 dB
- OP1dB: 20 dBm
- Single Supply
- 3x3 mm compact size



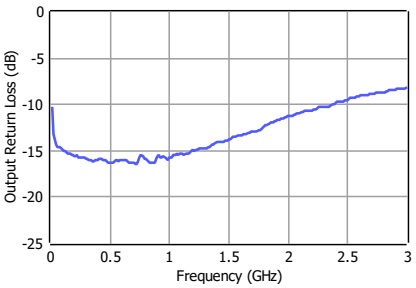
Gain



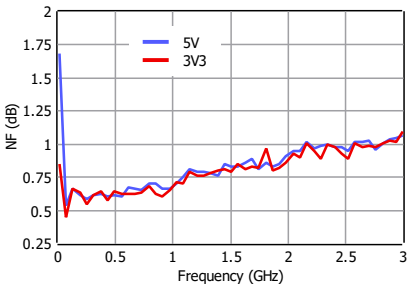
Input Return Loss



Output Return Loss



Noise Figure



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AMPLIFIERS

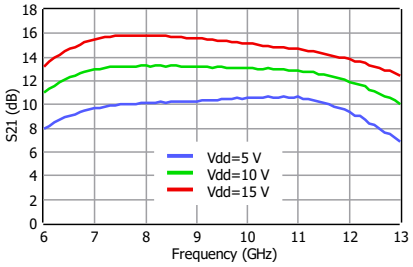
LOW NOISE AMPLIFIERS – LNA

ATEK153 6 - 13 GHz GaN Low Noise Amplifier

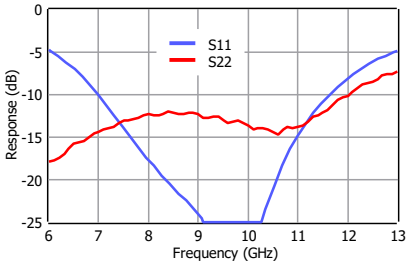
Product Features

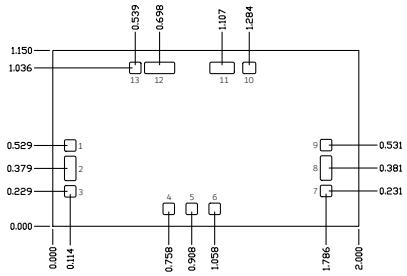
- Frequency Range: 6 – 13 GHz
- Gain: 13 dB
- Noise Figure: 2.2 dB
- OP1dB: 27.5 dBm
- Psat: 30 dBm
- 1.15x2 mm compact chip size

Gain vs. Vdd

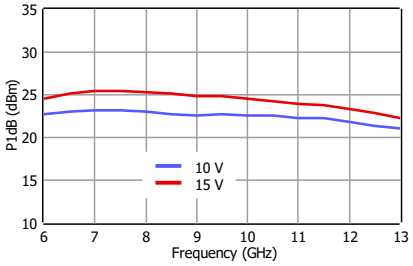


Return Losses

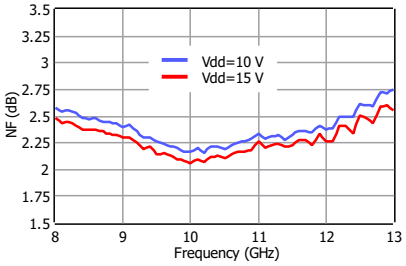




P1dB vs. Vdd



Noise Figure vs. Vdd

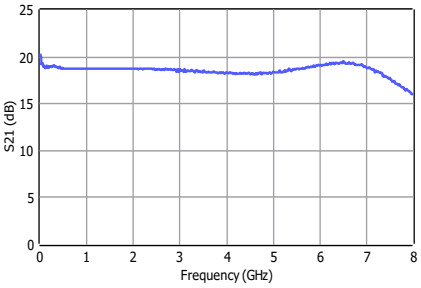


ATEK951P4 0.01 - 8 GHz Low Noise Amplifier with Bypass

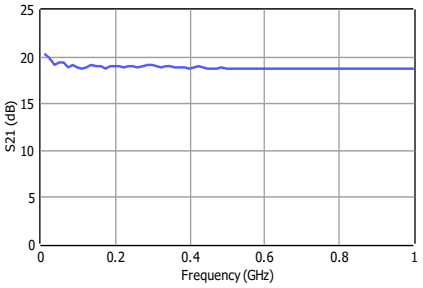
Product Features

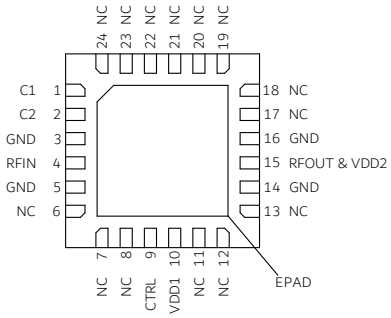
- Frequency Range: 0.01 - 8 GHz
- Gain: 18 dB
- Noise Figure: 2.5 dB
- OP1dB: 17 dBm
- Single Supply
- Positive Control
- 4x4 mm compact size

Gain

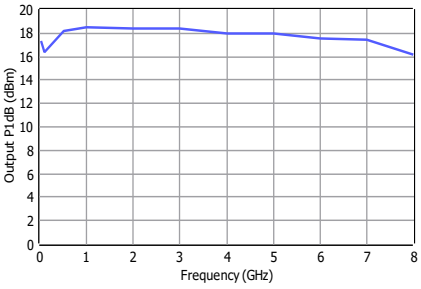


Insertion Loss

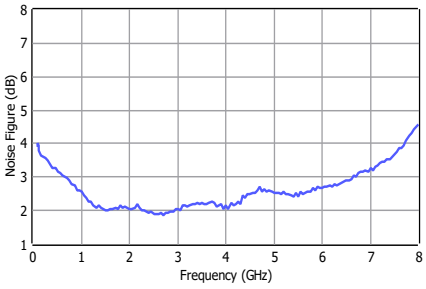




P1dB



Noise Figure



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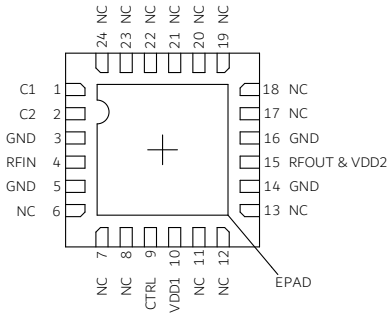
AMPLIFIERS

LOW NOISE AMPLIFIERS – LNA

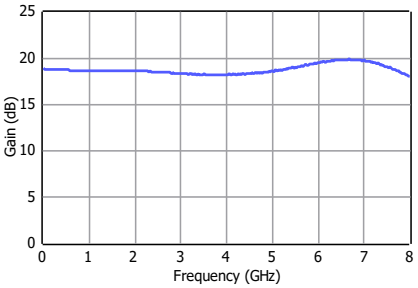
ATEK951N4 0.01 - 8 GHz Low Noise Amplifier with Bypass

Product Features

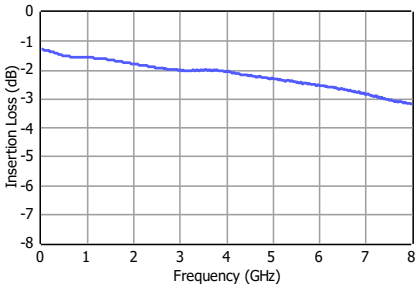
- Frequency Range: 0.01 - 8 GHz
- Gain: 18.5 dB
- Noise Figure: 2.5 dB
- OP1dB: 17 dBm
- Single Supply
- Positive Control
- 4x4 mm compact size



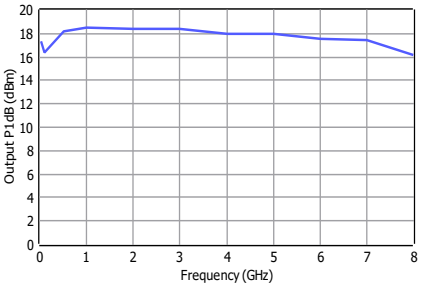
Gain Wideband



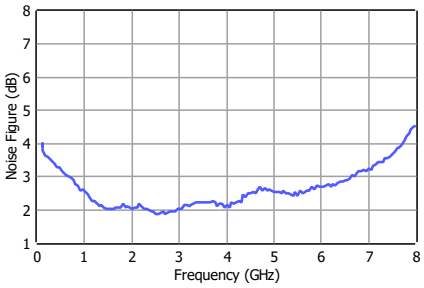
Insertion Loss



Output P1dB



Noise Figure



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DRIVERS & GAIN BLOCKS

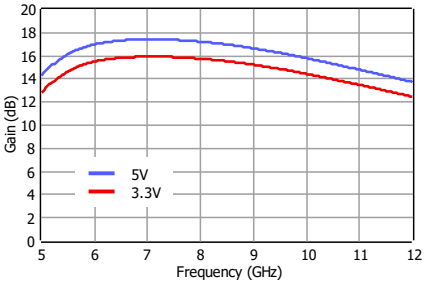
DRIVER AMPLIFIERS

ATEK550P3 5 - 12 GHz Driver Amplifier

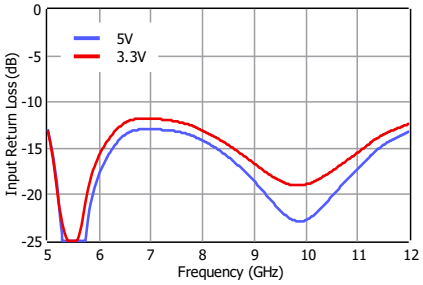
Product Features

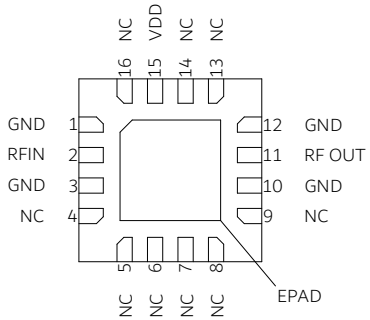
- Frequency Range: 5 - 12 GHz
- Gain: 17 dB at 8 GHz
- Single Supply
- 3x3 mm compact size

Gain

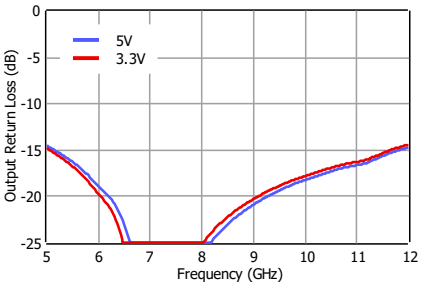


Input Return Loss

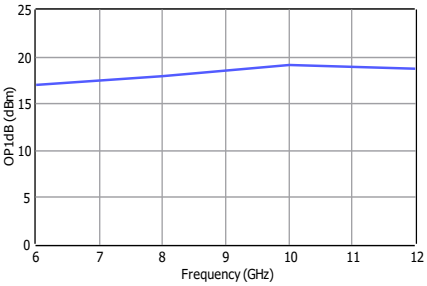




Output Return Loss



Output P1dB

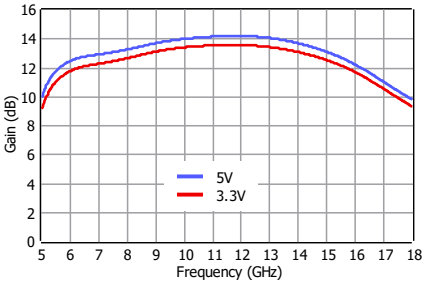


ATEK551P3 6 - 18 GHz Driver Amplifier

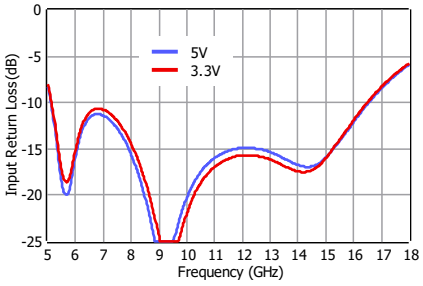
Product Features

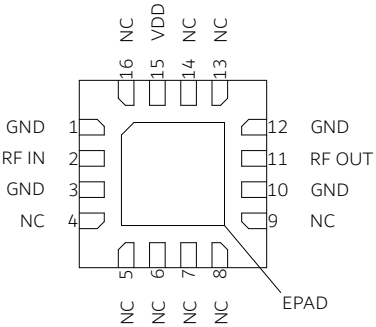
- Frequency Range: 6 - 18 GHz
- Gain: 14 dB at 12 GHz
- Output Power: 18 dBm
- Single Supply
- 3x3 mm compact size

Gain

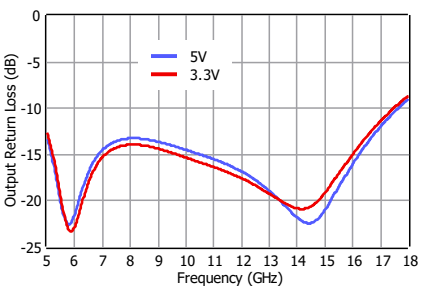


Input Return Loss

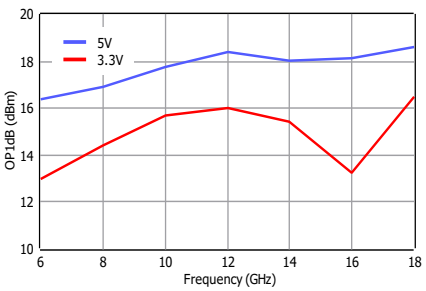




Output Return Loss



Output P1dB



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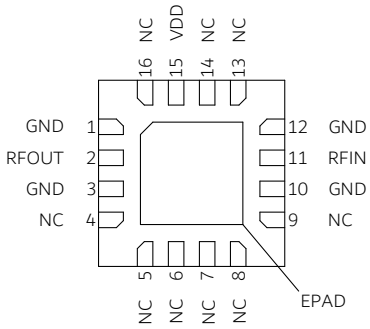
DRIVERS AND GAIN BLOCKS

DRIVER AMPLIFIERS

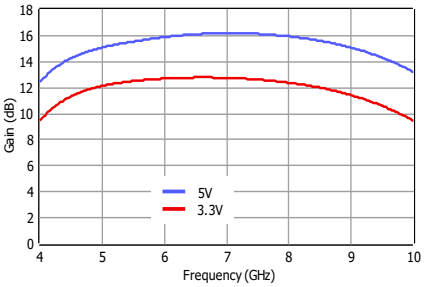
ATEK561P3 4 – 10 GHz Amplifier

Product Features

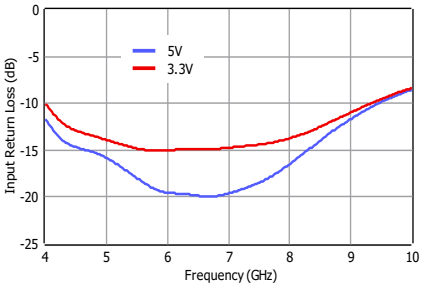
- Frequency Range: 4 - 10 GHz
- Gain: 15 dB
- Single Supply
- 3x3 mm compact size



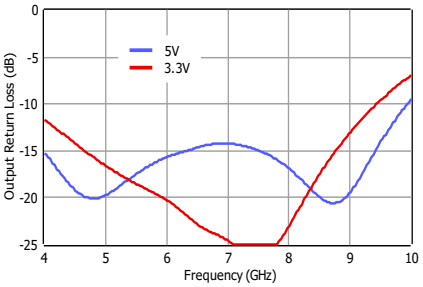
Gain



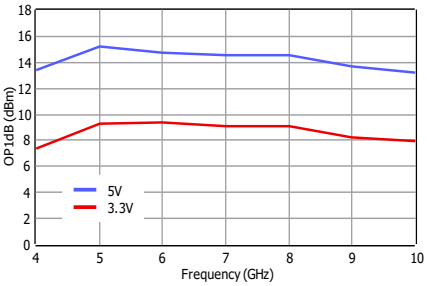
Input Return Loss



Output Return Loss



Output P1dB



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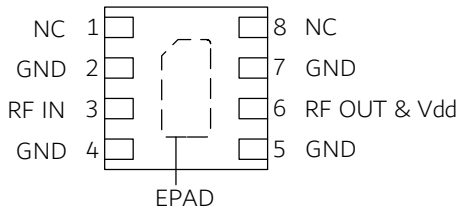
DRIVERS & GAIN BLOCKS

GAIN BLOCKS

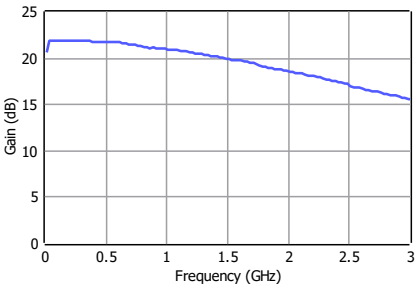
ATEK590P2 LF – 3 GHz Gain Block Amplifier

Product Features

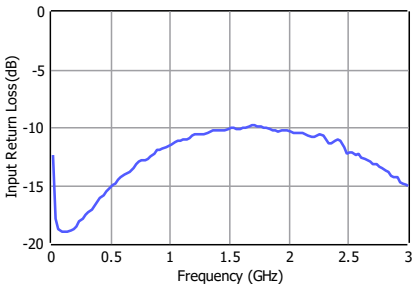
- Frequency Range: LF - 3 GHz
- Gain: 20 dB
- OP1dB: 19 dBm
- OIP3: 36 dBm
- NF: 2.5 dB
- Single Supply



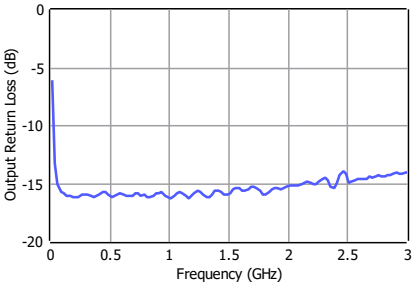
Gain



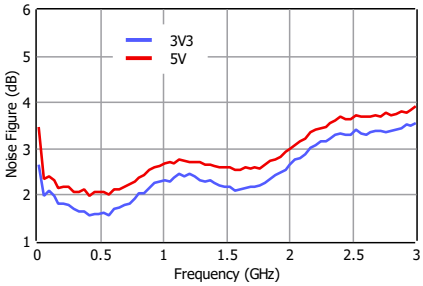
Input Return Loss



Output Return Loss



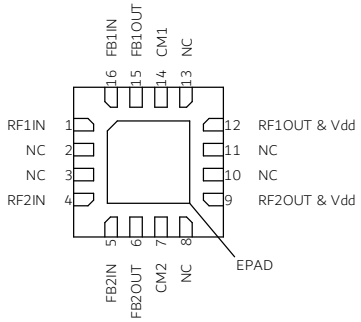
Noise Figure



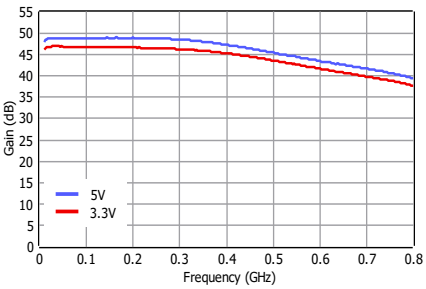
ATEK591P3 LF - 600 MHz High Gain Amplifier

Product Features

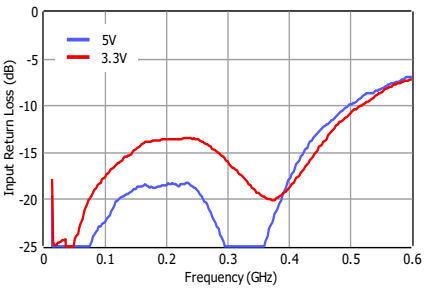
- Frequency Range: LF - 600 MHz
- Gain: 48.5 dB at 300 MHz
- OIP3: 32 dBm at 300 MHz
- OP1dB: 19 dBm at 300 MHz
- Positive Supply
- 3x3 mm compact size



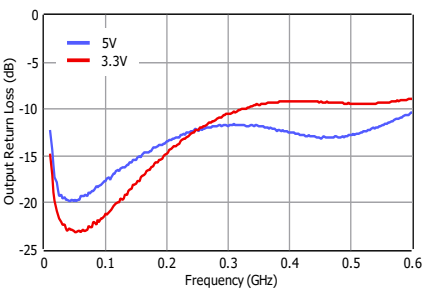
2 Stage Amplifier Gain (Amp2 is driven by Amp1)



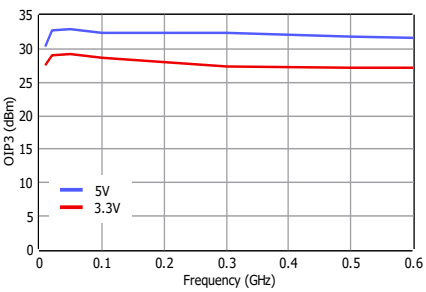
2 Stage Amplifier Input Return Loss



2 Stage Amplifier Output Return Loss



2 Stage Amplifier Output IP3



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FREQUENCY CONVERSION

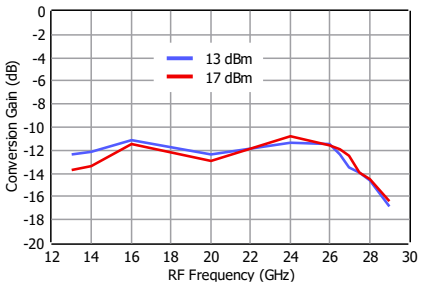
MIXERS

ATEK750N3 5 - 28 GHz Mixer

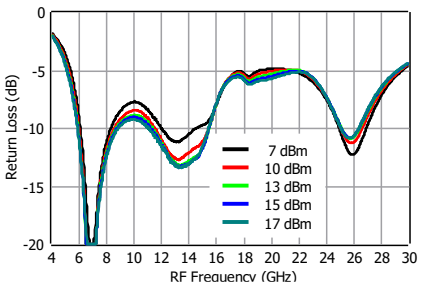
Product Features

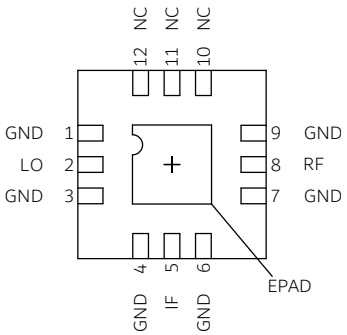
- Frequency Range: 5 - 28 GHz
- Low Loss: 8 dB
- 3x3 mm compact size

Conversion Gain vs. LO Power, IF=8 GHz, Upper Sideband

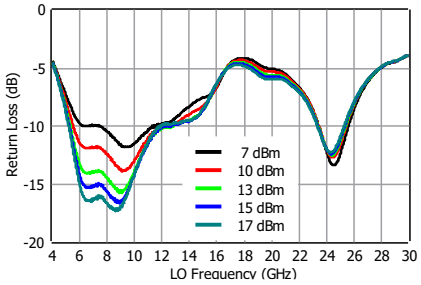


RF Return Loss vs. LO Power, LO=8 GHz

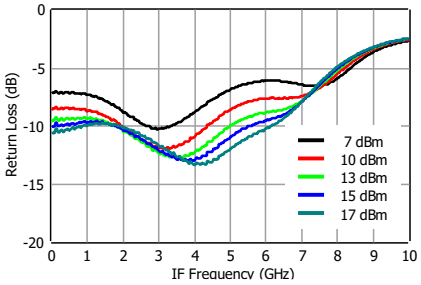




LO Return Loss vs. RF Power, RF=8 GHz



IF Return Loss vs. RF Power, RF=8 GHz

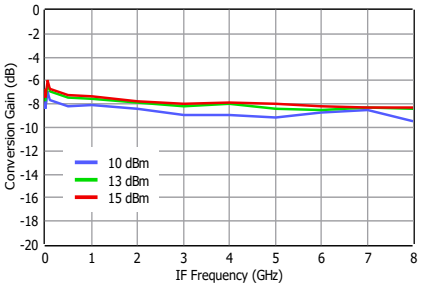


ATEK766P3 6 - 18GHz Mixer with 8.5 GHz IF Bandwith

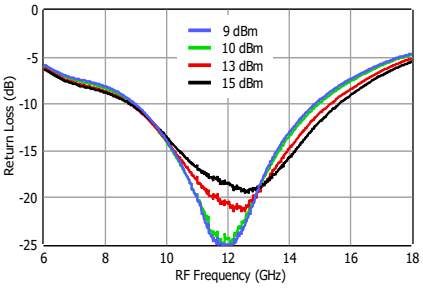
Product Features

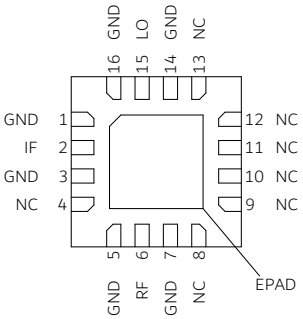
- Frequency Range: 6 - 18 GHz
- High IF Bandwidth: 8 GHz
- Conversion Loss: 7 dB
- IIP3: 16 dBm
- IP1dB: 7 dBm
- 3x3 mm compact size

Conversion Gain vs. IF Frequency, Upconverter, High Side LO, RF OUT = 9.5 GHz

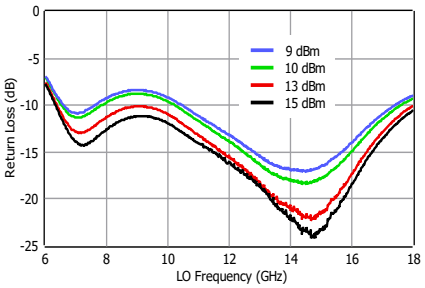


RF Return Loss vs LO Power at LO = 8 GHz

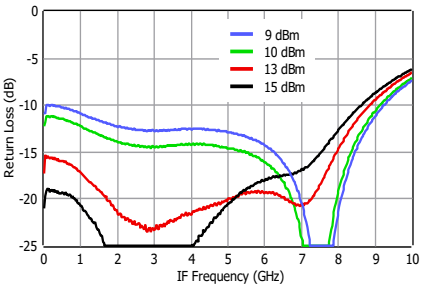




LO Return Loss vs RF Power at RF = 8 GHz



IF Return Loss vs. LO Power at LO = 8 GHz



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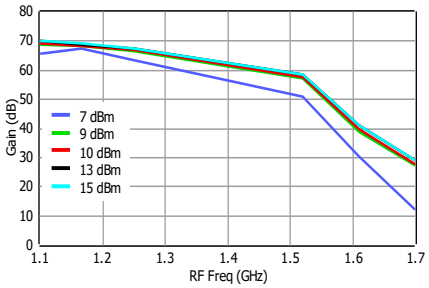
RF FRONT ENDS

ATEK953 1.1 – 1.7 GHz RF/IF Downconverter

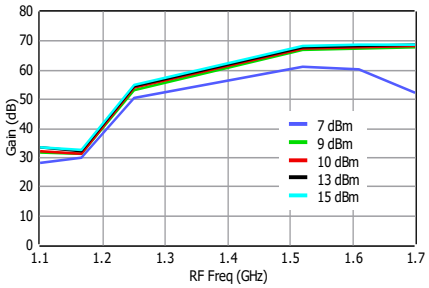
Product Features

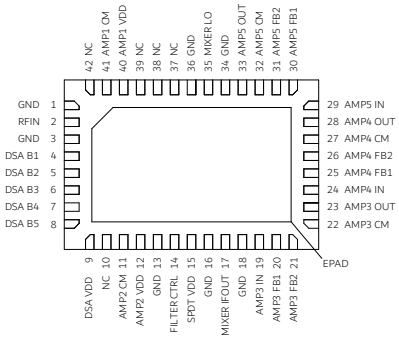
- Frequency Range: 1.1 – 1.7 GHz
- Gain: 82 dB
- OP1dB: 20 dBm
- OIP3: 33 dBm
- Single Supply
- 4x6 mm compact size

Gain vs LO Power at LPF ON, 150MHz IF Out, DSA = 0 dB State, external Filters included (SAW, BPF, LPF).

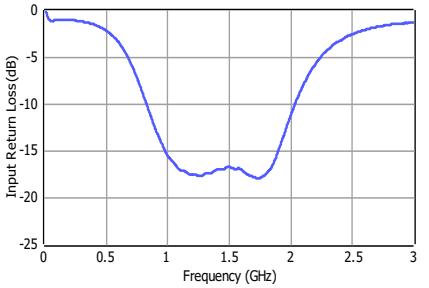


Gain vs LO Power at HPF ON, 150MHz IF Out, DSA = 0 dB State, external Filters included (SAW, BPF, LPF).

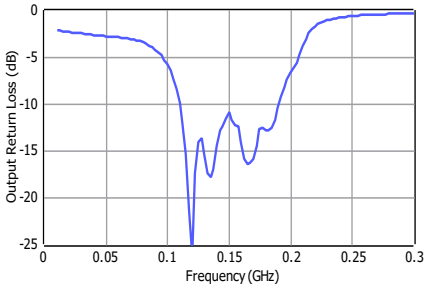




Input Return Loss, DSA = 0 dB State, external Filters included (SAW, BPF, LPF).



Output Return Loss, DSA = 0 dB State, external Filters included (SAW, BPF, LPF).



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FILTERS

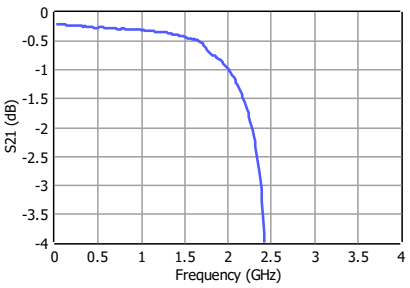
LOW PASS FILTERS

ATEK817P4 DC - 2.4 GHz Low Pass Filter

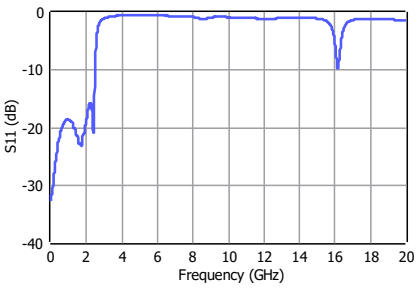
Product Features

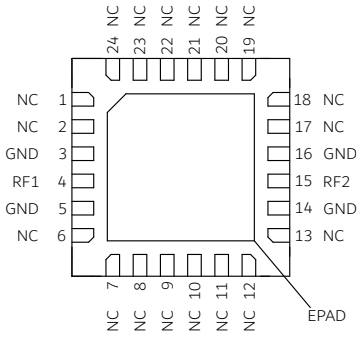
- 3 dB Frequency Range: DC – 2.4 GHz
- Insertion Loss: 1 dB
- 4x4 mm compact size

Insertion Loss

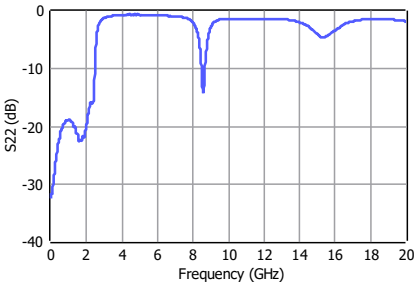


Input Return Loss





Output Return Loss

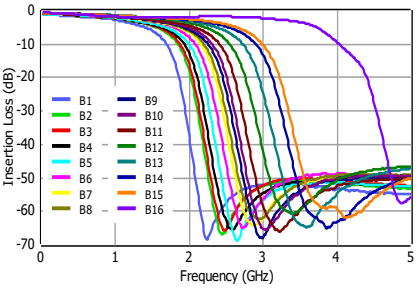


ATEK821P4 1 – 2.5 GHz Tunable Low Pass Filter

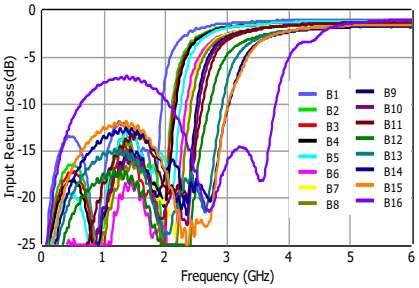
Product Features

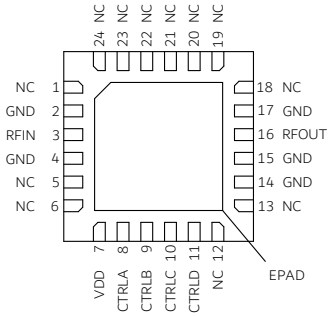
- Insertion Loss: 2.5 dB
- IIP3: 45 dBm
- 50 dBc Rejection
- Positive Supply
- 4x4 mm compact size

Insertion Loss

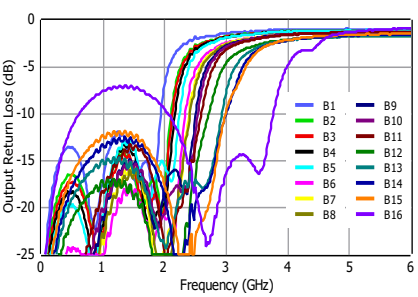


Input Return Loss

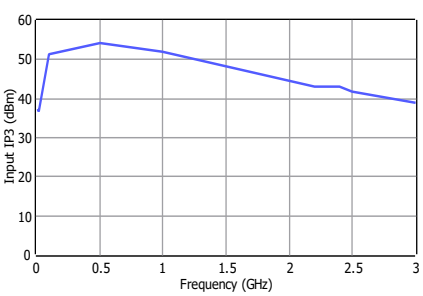




Output Return Loss



Input IP3, Filter Path



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FILTERS

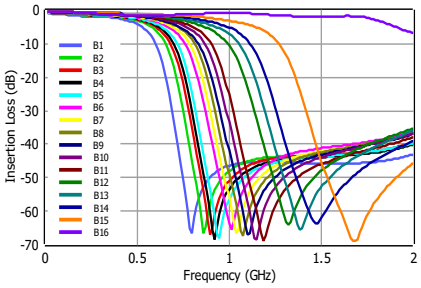
LOW PASS FILTERS

ATEK822P4 0.35 – 1.1 GHz Tunable Low Pass Filter

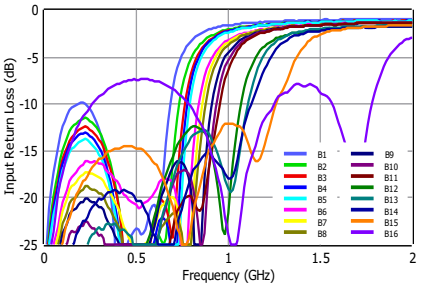
Product Features

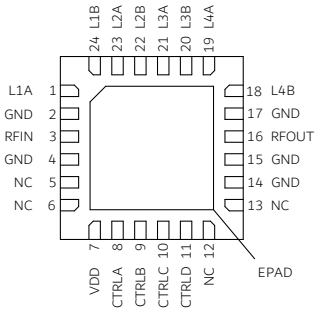
- Insertion Loss: 2.5 dB
- IIP3: 45 dBm
- 40 dBc Rejection
- Positive Supply
- 4x4 mm compact size

Insertion Loss

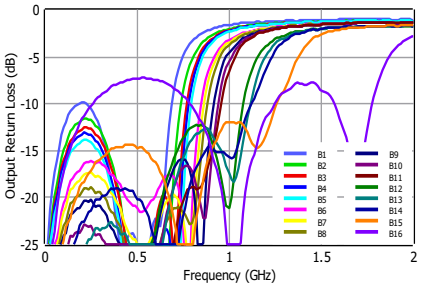


Input Return Loss

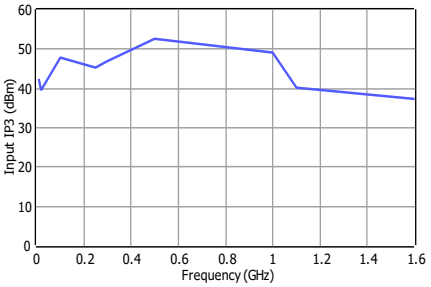




Output Return Loss



Input IP3, Filter Path



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FILTERS

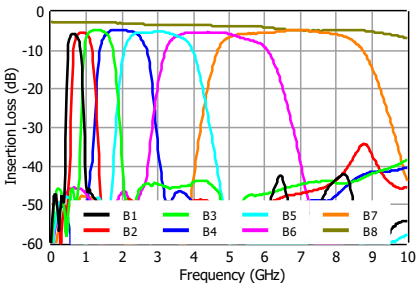
FILTER BANKS

ATEK950P6 485 - 8000 MHz Switchable Filter Bank

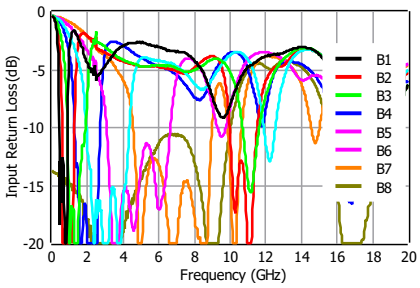
Product Features

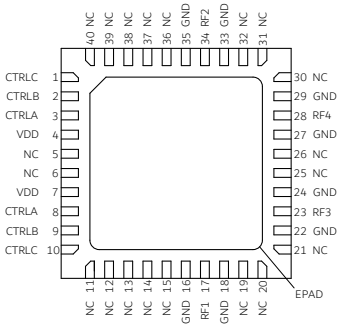
- Freq. Range: 485 – 8000MHz
- 7 Switchable Band Pass Filters
- IIP3: 43 dBm
- Single Supply: 3.3 V to 5 V

Insertion Loss

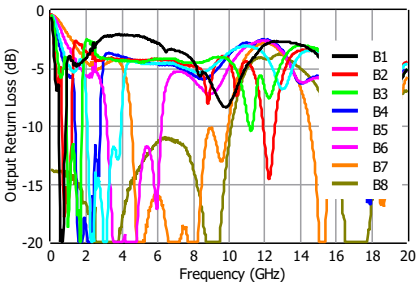


Input Return Loss

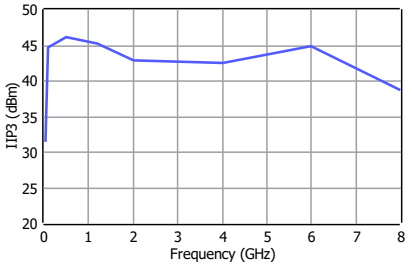




Output Return Loss



Input IP3 Thru-Path



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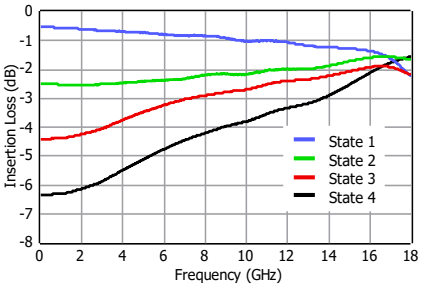
EQUALIZERS

ATEK900N3 LF - 18 GHz 2-bit 6 dB Gain Equalizer with Switchable Slope

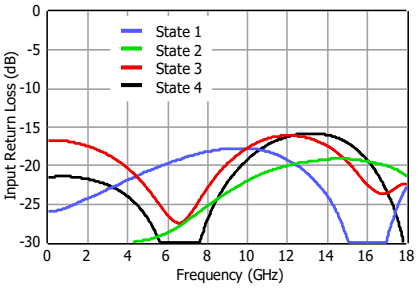
Product Features

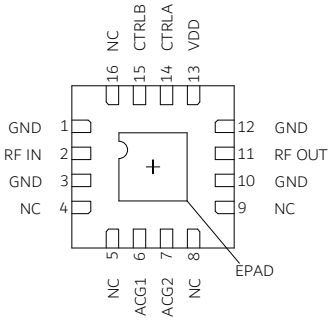
- Frequency Range: LF – 18 GHz
- Switchable Slope
- Low Loss: 1 dB
- Single Supply
- 3x3 mm compact size

Insertion Loss

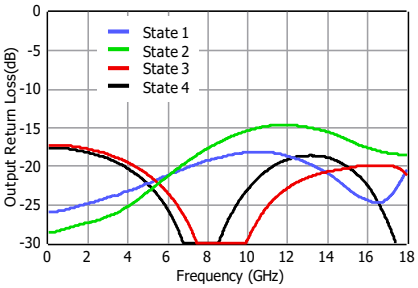


Input Return Loss





Output Return Loss



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PASSIVES

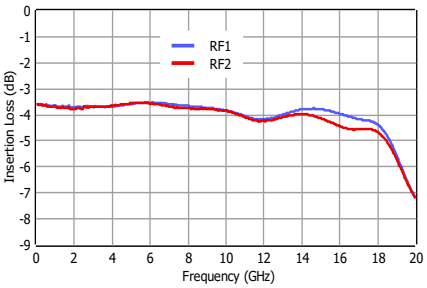
DIVIDERS

ATEK816P5 DC - 18 GHz Power Divider

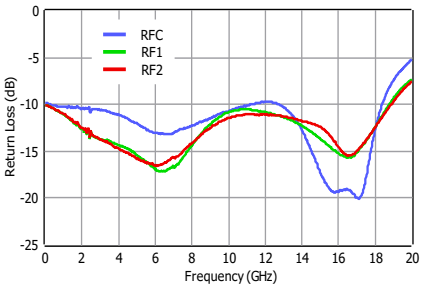
Product Features

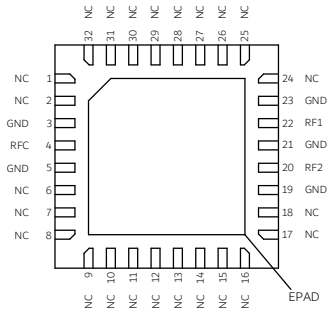
- Frequency Range: LF – 18 GHz
- Loss: 1 dB (In Addition to 3 dB)
- Amplitude Imbalance: 0.5 dB
- Phase Imbalance
- 5x5 mm compact size

Insertion Loss

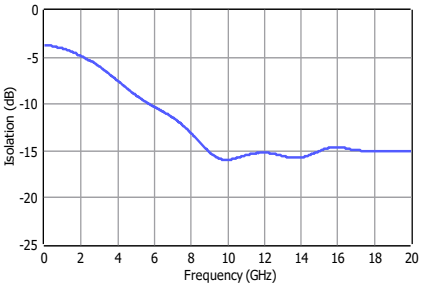


Return Loss





Isolation



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ATEK MIDAS
MODULE PRODUCTS

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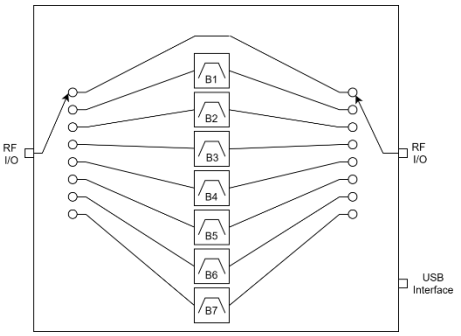
MODULES

PRE-SELECTORS

ATEK1001 485 – 8000 MHz Pre-selector Module

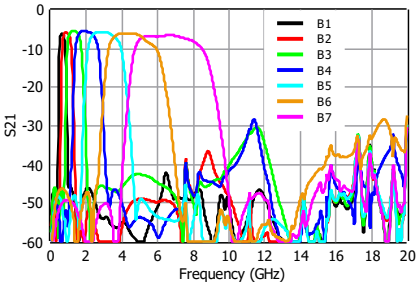
Product Features

- Freq. Range: 485 – 8000 MHz
- 7 Switchable Band Pass Filters
- Custom milled metal enclosure
- USB interface
- IIP3: 43 dBm
- 36.4x59.9x24.8 mm compact size

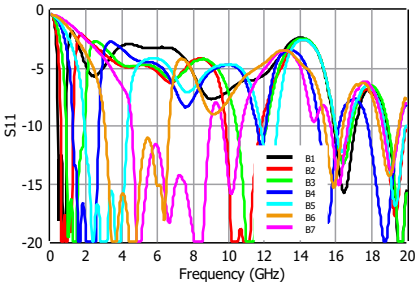


Mec. Case: ATEKM9501

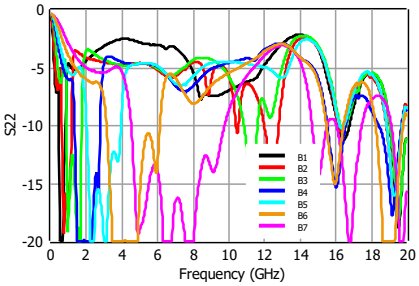
Insertion Loss



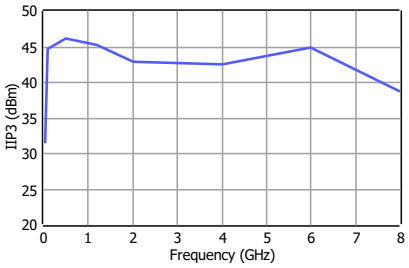
Input Return Loss



Output Return Loss



Input IP3 Thru-Path



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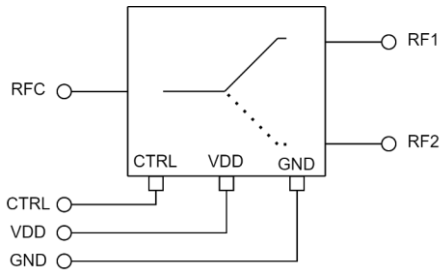
MODULES

SPDT

ATEK1201 LF - 28 GHz SPDT Switch Module

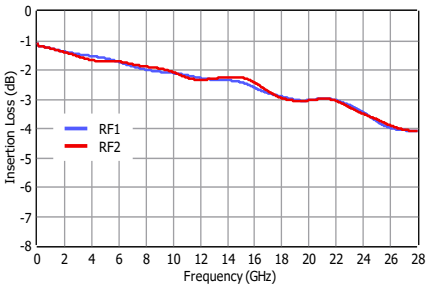
Product Features

- Frequency Range: LF - 28 GHz
- Insertion Loss: 2.1 dB at 14 GHz
- IIP3: 40.5 dBm at 10 GHz
- Positive Supply
- 48.9x54x14.2 mm compact size

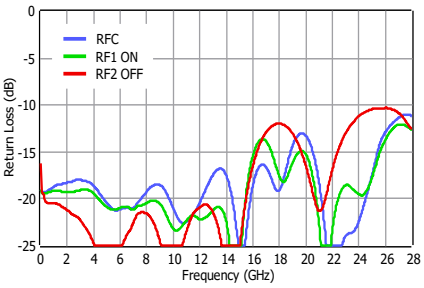


Mec. Case: ATEKM9511

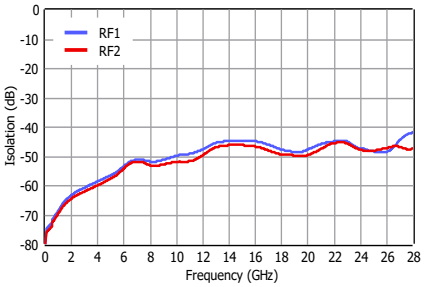
Insertion Loss



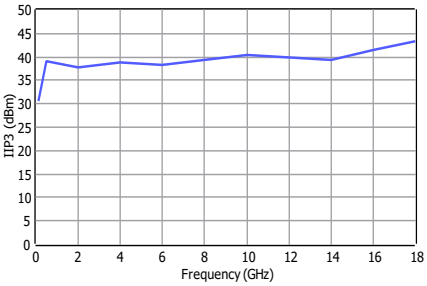
Return Loss



Isolation



Input IP3



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MODULES

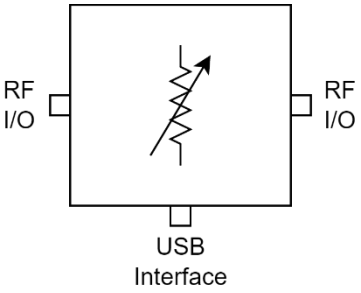
DSA

ATEK1231

LF - 18 GHz 5-bit 31 dB Digital Step Attenuator Module

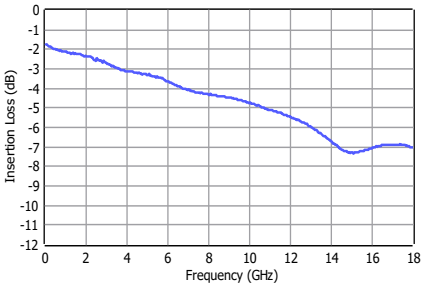
Product Features

- Frequency Range: LF - 18 GHz
- Gain: 4.3 dB at 8 GHz
- Attenuation Range: 31 dB
- USB Interface for control and Vdd supply
- 36.4x59.9x24.8 mm compact size

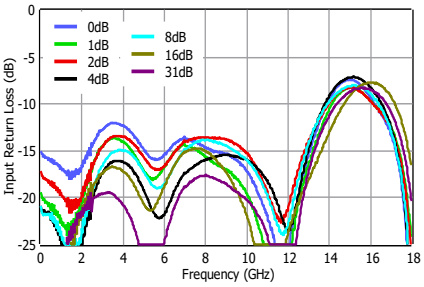


Mec. Case: ATEKM9501

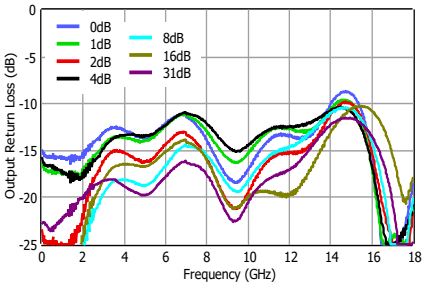
Insertion Loss



Input Return Loss



Output Return Loss



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MISCELLANEOUS CONNECTORS

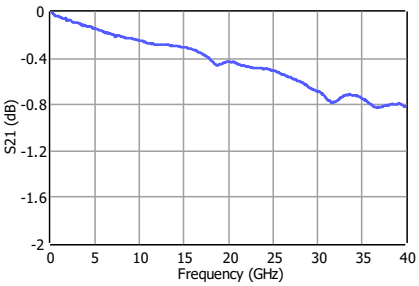
ATEK9292

DC - 40 GHz, 2.92 mm / K Connector

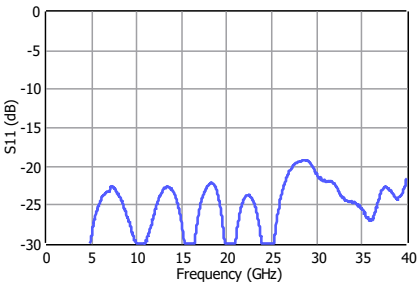
Product Features

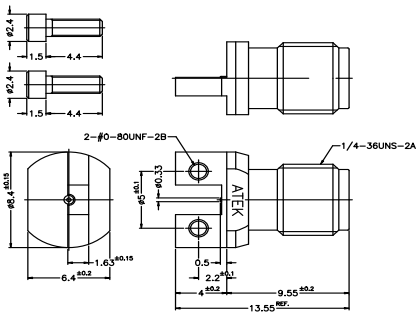
- Frequency Range: DC to 40+ GHz
- Low Loss: 0.8 dB at 40 GHz
- 22 dB Return Loss at 40 GHz
- Solder free interconnect
- Compact Size

S21 – Each Connector



S11 – Both Connectors





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PACKAGE & MODULE DIMENSIONS

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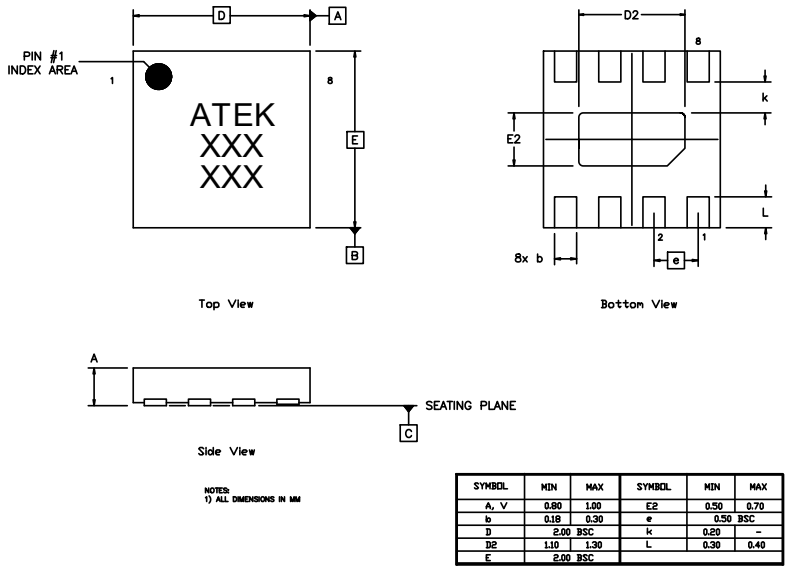
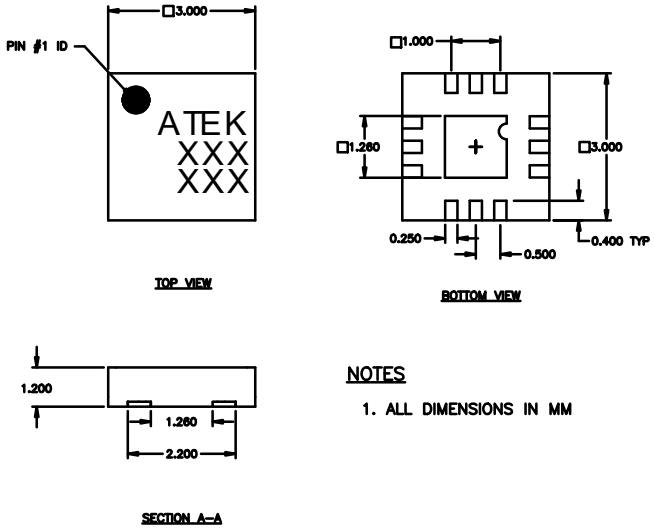
PACKAGE INFORMATION

ATEKDP2208 2x2 8 Leads DFN Package



SYMBOL	MIN	MAX	SYMBOL	MIN	MAX
A, V	0.80	1.00	E2	0.50	0.70
b	0.18	0.30	e	0.50 BSC	
D	2.00 BSC		k	0.20	–
D2	1.10	1.30	L	0.30	0.40
E	2.00 BSC				

ATEKQN3312 3x3 12 Leads QFN Package



NOTES

1. ALL DIMENSIONS IN MM

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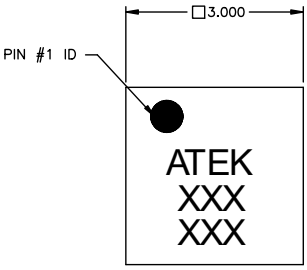
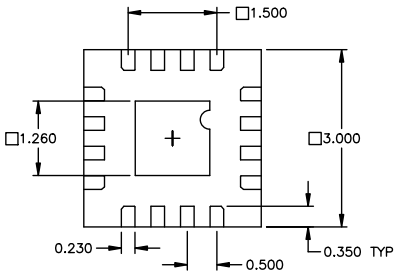
PACKAGE INFORMATION

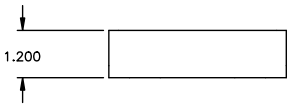
ATEKQN3316 3x3 16 Leads QFN Package



TOP VIEW



BOTTOM VIEW

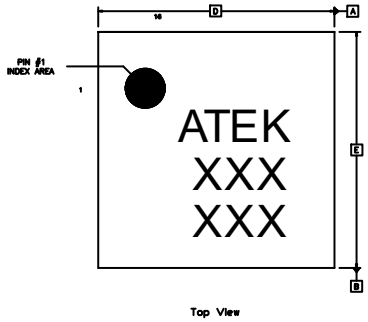


SIDE VIEW

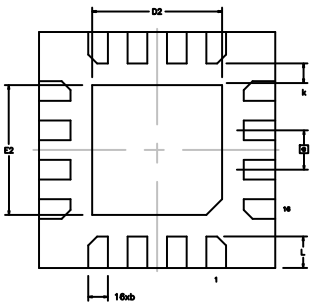
NOTES

1. ALL DIMENSIONS IN MM

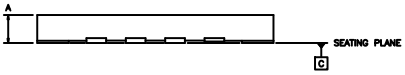
ATEKQP3316 3x3 16 Leads QFN Package



Top View



Bottom View



Side View

NOTES:
1) ALL DIMENSIONS IN MM

SYMBOL	MIN	MAX	SYMBOL	MIN	MAX
A, V	0.80	1.00	E2	1.55	1.75
b	0.18	0.30	e	0.50 BSC	
D	3.00 BSC		k	0.20	-
D2	1.55	1.75	L	0.35	0.45
E	3.00 BSC				

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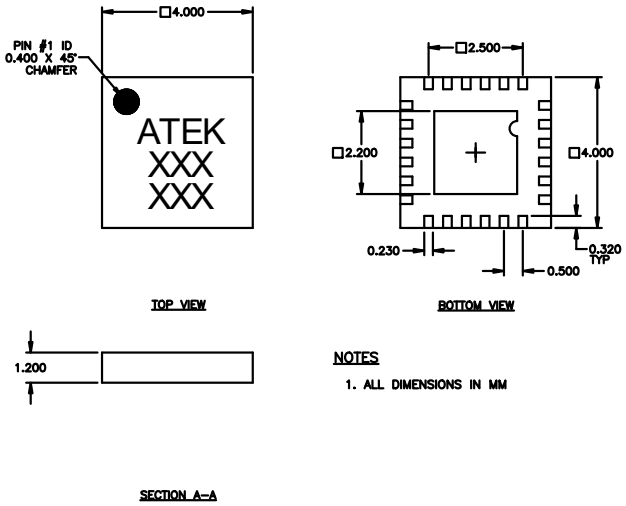
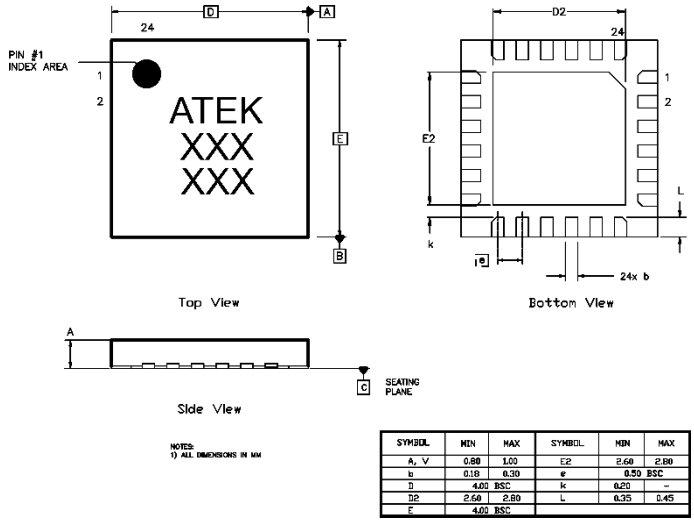
PACKAGE INFORMATION

ATEKQN4424 4x4 24 Leads QFN Package



ATEKQP4424 4x4 24 Leads QFN Package



SYMBOL	MIN	MAX	SYMBOL	MIN	MAX
A, V	0.80	1.00	E2	2.60	2.80
b	0.18	0.30	e	0.50 BSC	
D	4.00 BSC		k	0.20	-
D2	2.60	2.80	L	0.35	0.45
E	4.00 BSC				

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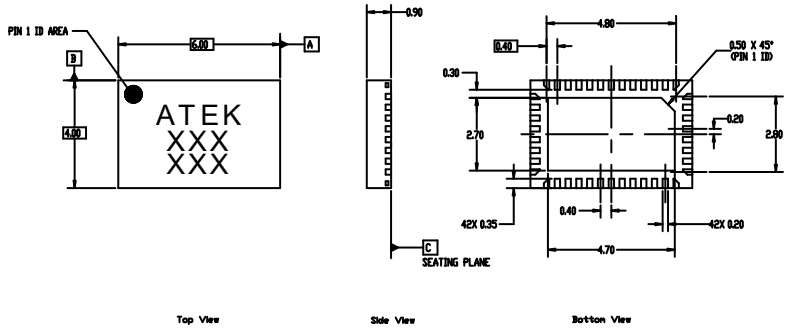
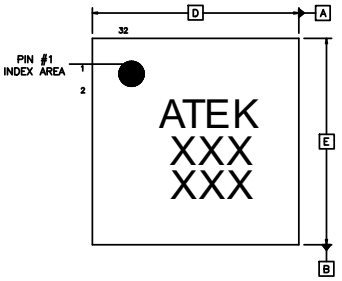
PACKAGE INFORMATION

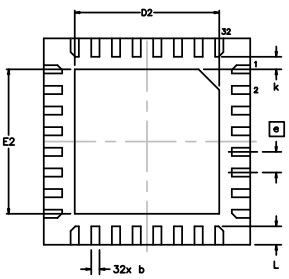
ATEKQP4642 4x6 42 Leads QFN Package



NOTES:
1. - ALL DIMENSIONS IN MILLIMETERS.

ATEKQP5532 5x5 32 Leads QFN Package





NOTES:
1) ALL DIMENSIONS IN MM

SYMBOL	MIN	MAX	SYMBOL	MIN	MAX
A, V	0.80	1.00	E2	3.40	3.60
b	0.18	0.30	e	0.50 BSC	
D	5.00 BSC		k	0.20	-
D2	3.40	3.60	L	0.40	0.50
E	5.00 BSC				

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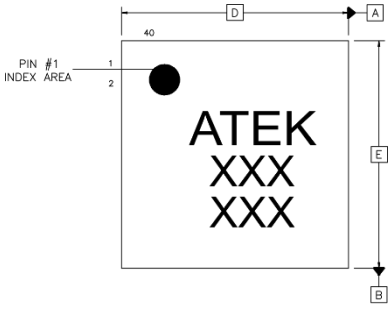
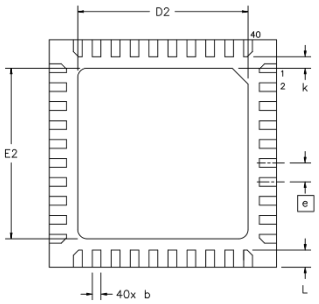
PACKAGE INFORMATION

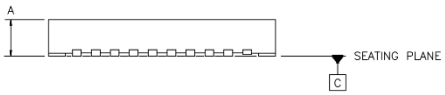
ATEKQP6640 6x6 40 Leads QFN Package



Top View



Bottom View

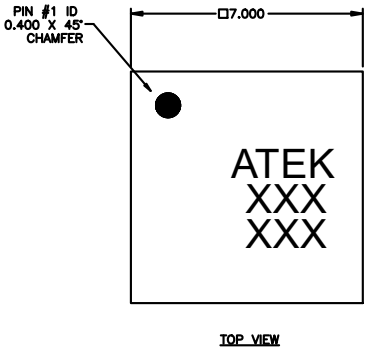


Side View

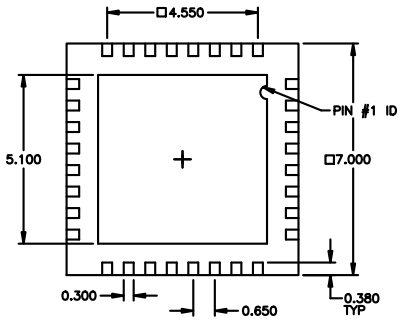
NOTES:
1) ALL DIMENSIONS IN MM

SYMBOL	MIN	MAX	SYMBOL	MIN	MAX
A, V	0.80	1.00	E2	4.40	4.60
b	0.18	0.30	e	0.50 BSC	
D	6.00 BSC		k	0.20	-
D2	4.40	4.60	L	0.40	0.50
E	6.00 BSC				

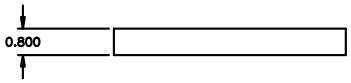
ATEKQN7732 7x7 32 Leads QFN Package



TOP VIEW



BOTTOM VIEW



SECTION A–A

NOTES

1. ALL DIMENSIONS IN MM

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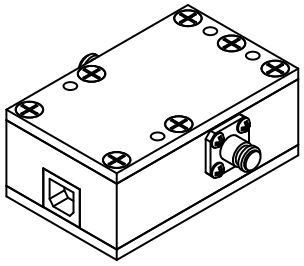
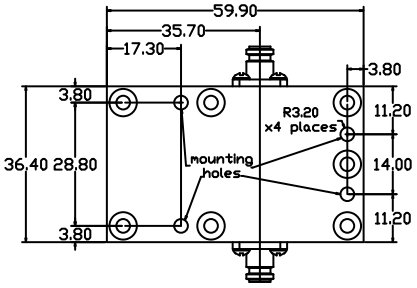
MODULE DIMENSION INFORMATION

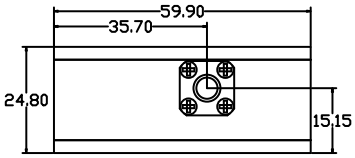
ATEKM9501



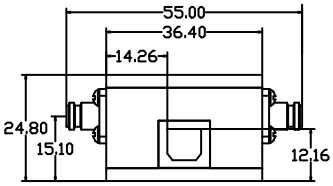
3D View



Top View

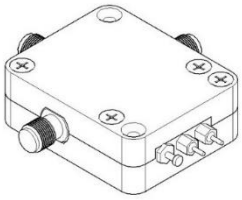


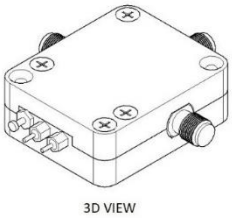
Side View A

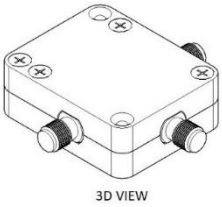


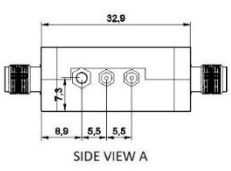
Side View B

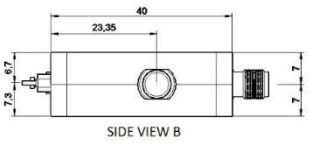
ATEKM9511

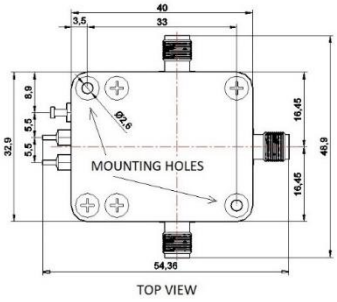












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