

STA-18340364005-KFKF-PE

18 to 40 GHz Programmable Attenuator, 63.5 dB, 0.5 dB Step

STA-18340364005-KFKF-PE is a coaxial programmable attenuator for use in microwave and millimeter systems where auto attenuation adjustment is required. The attenuator covers the frequency range of 18 to 40 GHz. The attenuation bias and control are via a Micro-D15 Female connector to accommodate remote operations from 0 to 63.5 dB. The attenuation step sizes are 0.5 dB. The RF connectors are 2.92 mm female. Other connector options are offered under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	18 GHz		40 GHz
Insertion Loss (at 0 dB setting)		16 dB	
Attenuation Range	0 dB		63.5 dB
Attenuation Accuracy	0.8 dB + Attenuation*10%		
Attenuation Step Size		0.5 dB	
Switching Speed		500 ns	
Switching Control		TTL, 7 Bit	
Return Loss		9 dB	
Input Power (no damage)			+25 dBm
Operating Voltage	± 4.75 V _{DC}	± 5.0 V _{DC}	± 5.25 V _{DC}
Operating Current		± 10 mA	
Specification Temperature		+25 °C	
Operating Temperature	-25 °C		+85 °C

Mechanical Specifications:

Item	Specification
RF Ports	2.92 mm (K) Female
Control & Bias Port	Micro-D15 Female
Material	Aluminum
Finish	Cover, Black Anodized; Body, Gold Plated
Dimensions	1.58" (L) x 1.97" (W) x 0.79" (H)
Outline	TA-PC-Z1

ECCN

EAR99

FEATURES

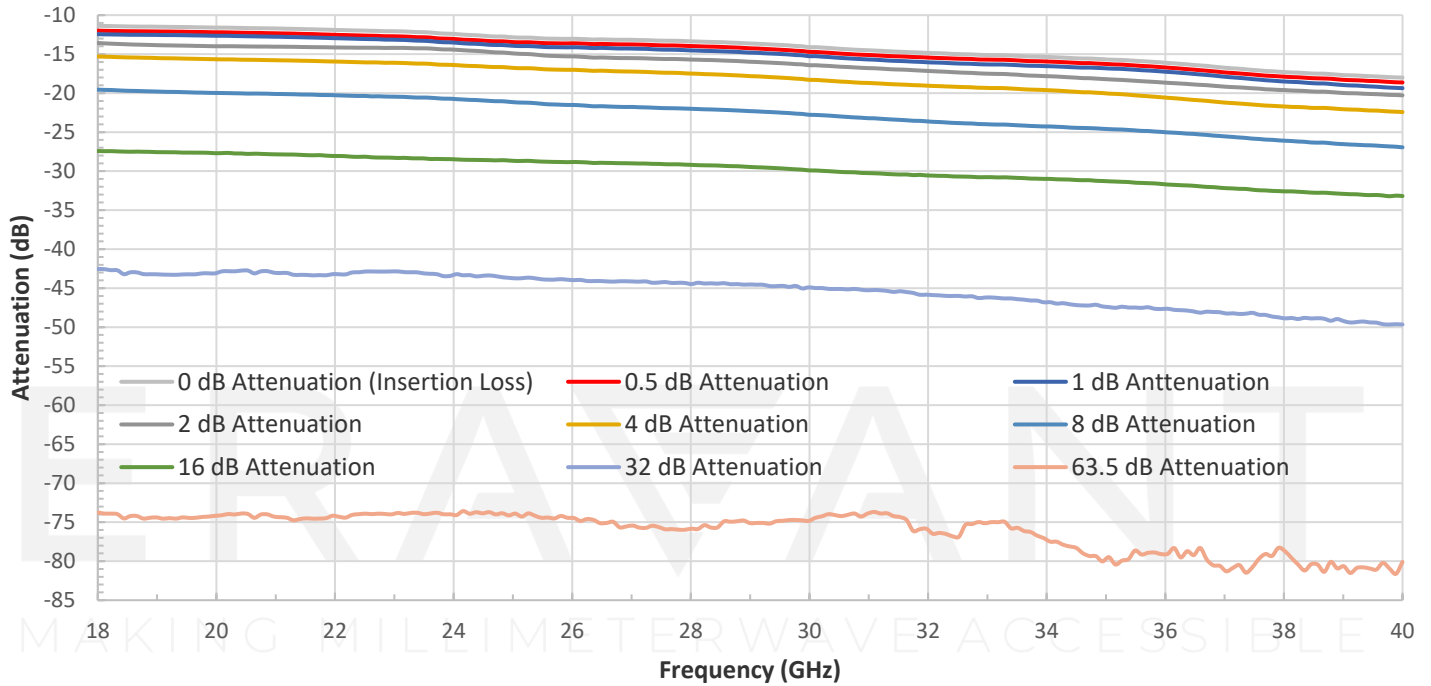
- 18 to 40 GHz Coverage
- High Attenuation Value up to 63.5 dB
- 7-Bit TTL Control

APPLICATIONS

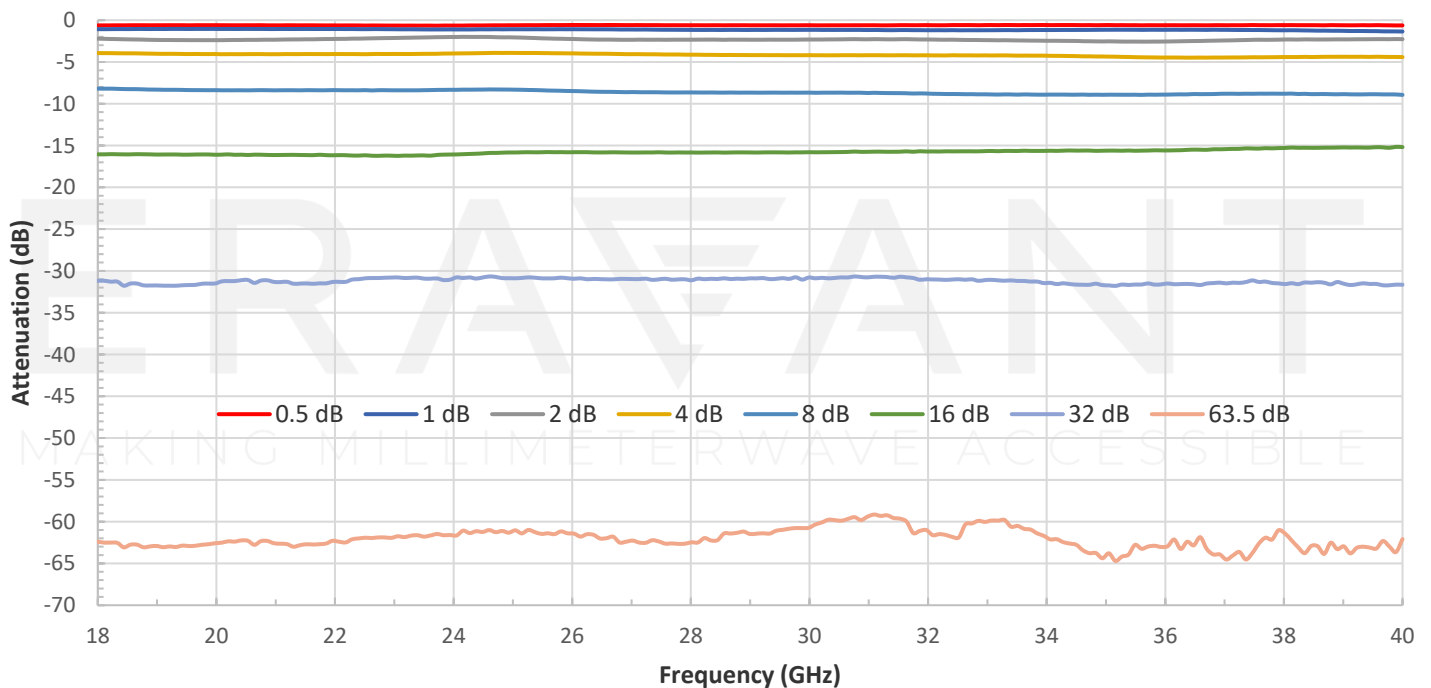
- Test Lab
- Instrumentations
- System Integration

SUPPLEMENTAL DETAILS

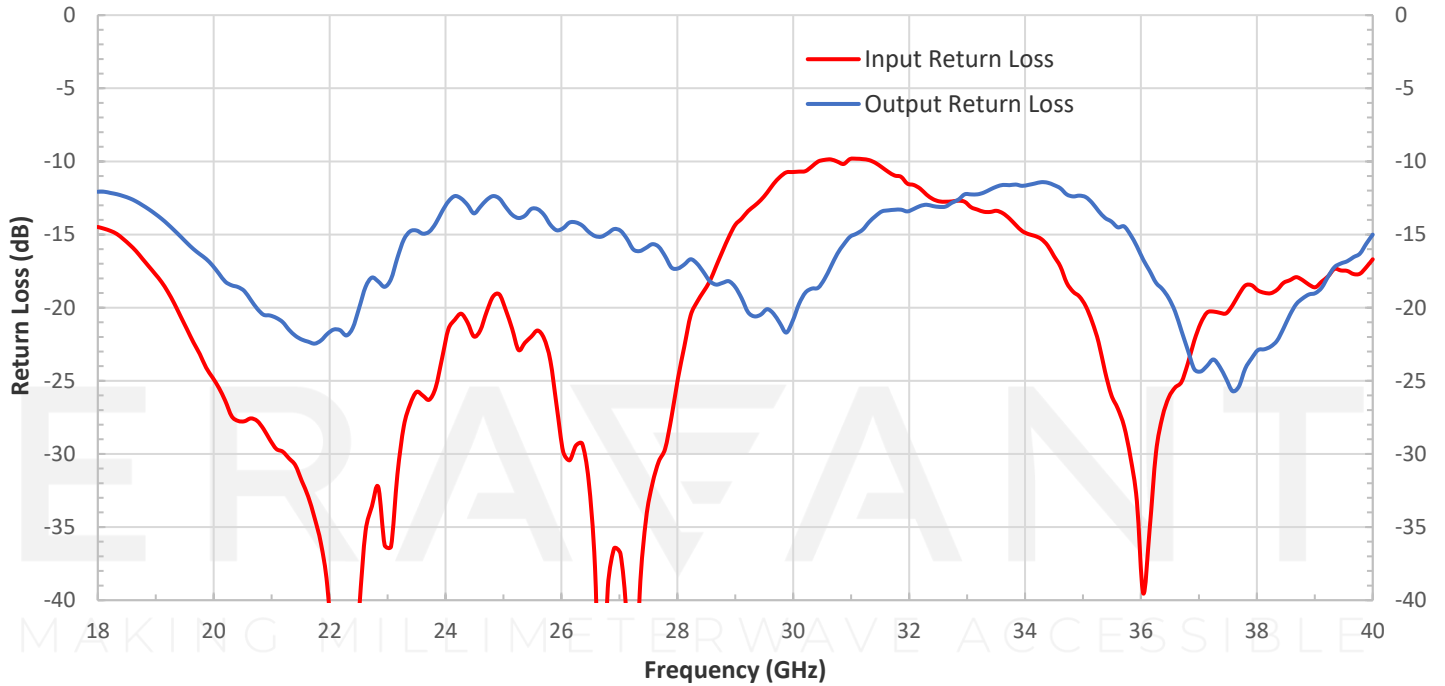
Typical Attenuation and Insertion Loss vs. Frequency



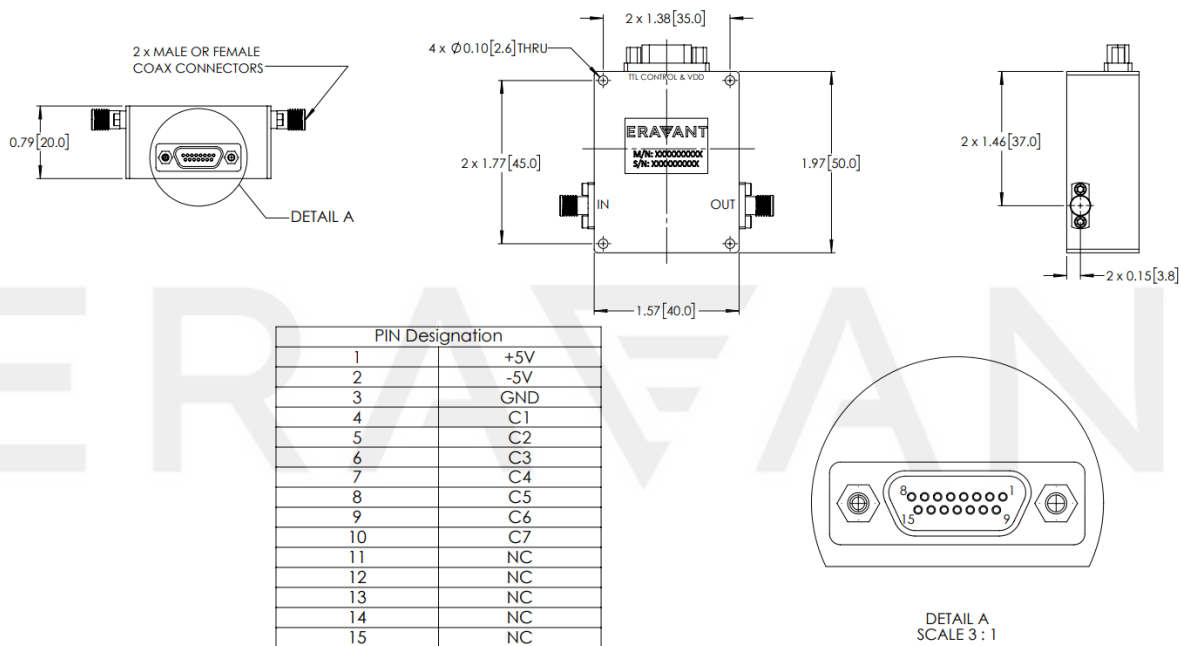
Typical Attenuation (without Insertion Loss) vs. Frequency



Typical Performance vs. Frequency



Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Logic Table:

Attenuation (dB)	C7	C6	C5	C4	C3	C2	C1
0 dB	0	0	0	0	0	0	0
0.5 dB	0	0	0	0	0	0	1
1 dB	0	0	0	0	0	1	0
2 dB	0	0	0	0	1	0	0
4 dB	0	0	0	1	0	0	0
8 dB	0	0	1	0	0	0	0
16 dB	0	1	0	0	0	0	0
32 dB	1	0	0	0	0	0	0
63.5 dB	1	1	1	1	1	1	1

NOTE:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- All testing was performed under +25 °C case temperature.
- Other mechanical configurations are available under different model numbers.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Exceeding absolute maximum ratings shown will damage the device.
- The device is static sensitive. Always follow ESD rules when working with the device.
- Proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model [SCH-08008-S1](#) is highly recommended.