

Digital Controlled Electrical Attenuator, 1 to 6 GHz

Description:

Model SKA-0130634563-SFSF-D4 is an broadband digitally controlled electrical attenuator operating from 1 to 6 GHz. The attenuator exhibits 4.5 dB typical insertion loss and offers 63 dB nominal attenuation control range in 1 dB steps under an 6-bit digital control. The control speed of the attenuator is typically 200 ns. The RF input and output ports are female SMA coax connectors, and a male Micro-D9 port is employed for providing the control signal and DC bias.



Features:

- Low Insertion Loss
- High Dynamic Range
- Fast Control Speed

Applications:

- Radar Systems
- Communication Systems
- Testing Equipment

Electrical Specifications:

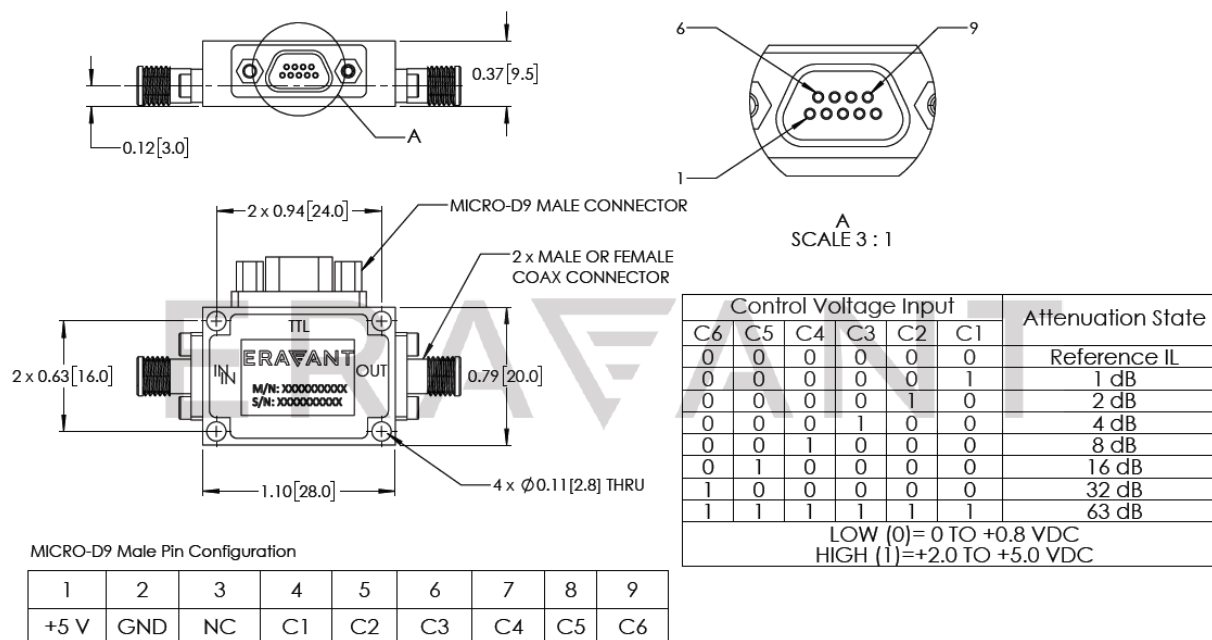
Parameter	Minimum	Typical	Maximum
RF Frequency	1 GHz		6 GHz
Insertion Loss		4.5 dB	6 dB
Attenuation Range		63 dB	
Attenuation Step size		1 dB	
TTL Control Bit		6	
Power Handling			+20 dBm
DC Voltage Supply		+5 V	
DC Current		50 mA	
Switching Speed		1 μ s	
Impedance		50 Ω	
Specification Temperature		+25 $^{\circ}$ C	
Operating Temperature	-45 $^{\circ}$ C		+85 $^{\circ}$ C

Mechanical Specifications:

Item	Specification
RF Ports	SMA (F)
Bias Port	MICRO-D9 (Male)
Case Material	Aluminum
Finish	Gold Plated
Weight	1.8 Oz
Insertion Length	1.10" (W) X 0.79" (L) X 0.37" (H)
Outline	KA-DC-Z4

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



Note:

- 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 attenuator is a static sensitive device. Always follow ESD rules when working with the attenuator.
- Any foreign objects in the waveguide will cause performance degradation and possible device damage.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.92 ± 0.05 Nm), should be applied. **Eravant torque wrench, model SCH-08008-S1, is highly recommended.**