SCV-000114453003-1F1M-U4

1 mm Bias Tee, 160 kHz to 110 GHz

SCV-000114453003-1F1M-U4 is a bias tee that operates from 160 kHz to 110 GHz. The bias tee offers 4.5 dB typical insertion loss and 10 dB typical return loss. The bias tee can handle up to +35 V_{DC} bias voltage and 300 mA current. The RF ports are equipped with 1.0 mm female connector on the input port (RF) and 1.0 mm male connector on the output port (RF/DC). Other connector types are available under different model numbers.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	160 kHz		110 GHz
Attenuation		4.5 dB	
Return Loss		10 dB	
Isolation		30 dB	
DC Voltage			+35 V_{DC}
DC Current			300 mA
Power Handling			1 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Specification
Input Port (RF)	1mm Female
Output Port (RF/DC)	1mm Male
DC Port	SMA Female
Case Material	Aluminum
Finish	Black Paint
Weight	1.6 Oz
Dimensions	0.59” (L) x 1.26” (W) x 0.39” (H)
Outline	CV-1-SR1

ECCN

EAR99

FEATURES

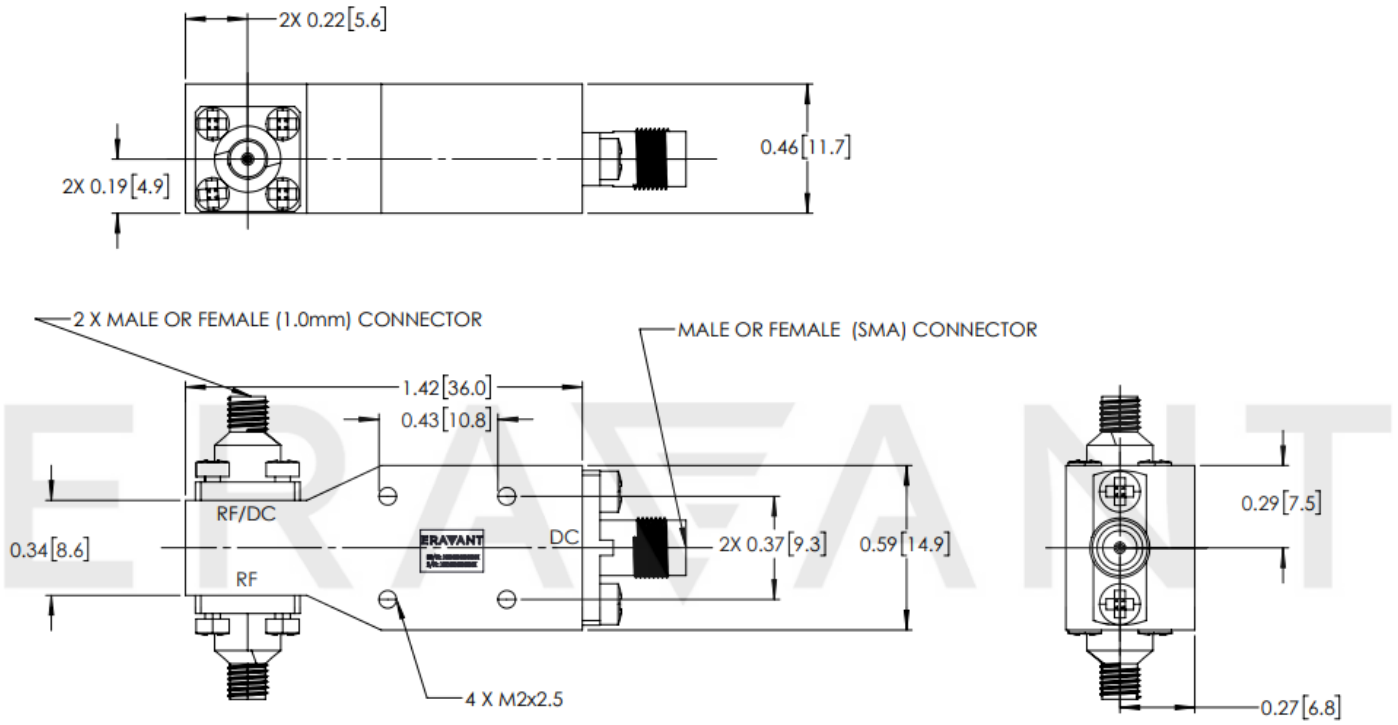
- High Voltage
- High Current Capacity
- Low Insertion Loss

APPLICATIONS

- Test Lab
- Sub-assemblies
- System Integrations

SUPPLEMENTAL DETAILS

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



NOTE:

- All data presented is collected from a sample lot. Actual data may vary slightly from unit to unit.
- All testing is 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.
- Any foreign objects in the bias tee will cause performance degradation and possible device damage.
- Proper torque should be applied: 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm). Torque wrench model SCH-06004-S1 is highly recommended.