SCS-1835031915-2F2F-22

2-Way Coaxial Power Splitter, 18 to 50 GHz

SCS-1835031915-2F2F-22 is a coaxial 2-way power splitter with a typical insertion loss of 1.9 dB at each output port and a typical isolation of 15 dB across the frequency range of 18 to 50 GHz. The power splitter has a nominal power handling of 20 W (CW) and a typical amplitude unbalance of ±0.5 dB. The return loss for all ports is 11 dB typical. The RF connectors of the power splitter are female 2.4 mm connectors.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	18 GHz		50 GHz
Insertion Loss*		1.9 dB	
Amplitude Unbalance		±0.5 dB	
Phase Unbalance		±5.0°	
Port Isolation		15 dB	
Return Loss		11 dB	
Forward Power Handling			20 W (CW)
Reverse Power Handling			2 W (CW)
Impedance		50 Ohms	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

*Note: The insertion loss is circuit loss, which does not include the power dividing loss.

Mechanical Specifications:

Item	Specification				
RF Ports	2.4 mm (F)				
Case Material	Aluminum				
Finish	Black Paint				
Size	0.55" (L) x 1.02" (W) x 0.39" (H)				
Outline	CS-Q2-SR1				

1/2



ECCN EAR99

•

FEATURES

 Low Insertion Loss Compact Package

> Sub-assemblies **Test Instrumentations**

SUPPLEMENTAL DETAILS

APPLICATIONS Test Lab

ERAWANT



Advanced Rev 1.0

SCS-1835031915-2F2F-22

ERAWANT

Mechanical Outline:

Unless otherwise specified, all dimensions are in inches [millimeters])



NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Exceeding absolute maximum ratings of the switch will damage the device.
- For 1 mm connectors proper torque should be applied: 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm). Torque wrench model <u>SCH-06004-S1</u> is highly recommended.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model <u>SCH-08008-S1</u> is highly recommended

MAKING MILLIMETERWAVE ACCESSIBLE