

# SCS-1835032215-2F2F-42

## 4-Way Coaxial Power Splitter, 18 to 50 GHz

**SCS-1835032215-2F2F-42** is a coaxial 4-way power splitter with a typical insertion loss of 2.2 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 forward power handling of 30 W (CW) and a typical amplitude unbalance of  $\pm 0.6$  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*		2.2 dB	
Amplitude Unbalance		$\pm 0.6$ dB	
Phase Unbalance		$\pm 9.0^\circ$	
Port Isolation		15 dB	
Return Loss		11 dB	
Forward Power Handling			30 W (CW)
Reverse Power Handling			1 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	0.95" (L) x 2.05" (W) x 0.39" (H)
Outline	CS-Q4-SR1

### ECCN

EAR99

### FEATURES

- Low Insertion Loss
- Compact Package

### APPLICATIONS

- Test Lab
- Sub-assemblies
- Test Instrumentations

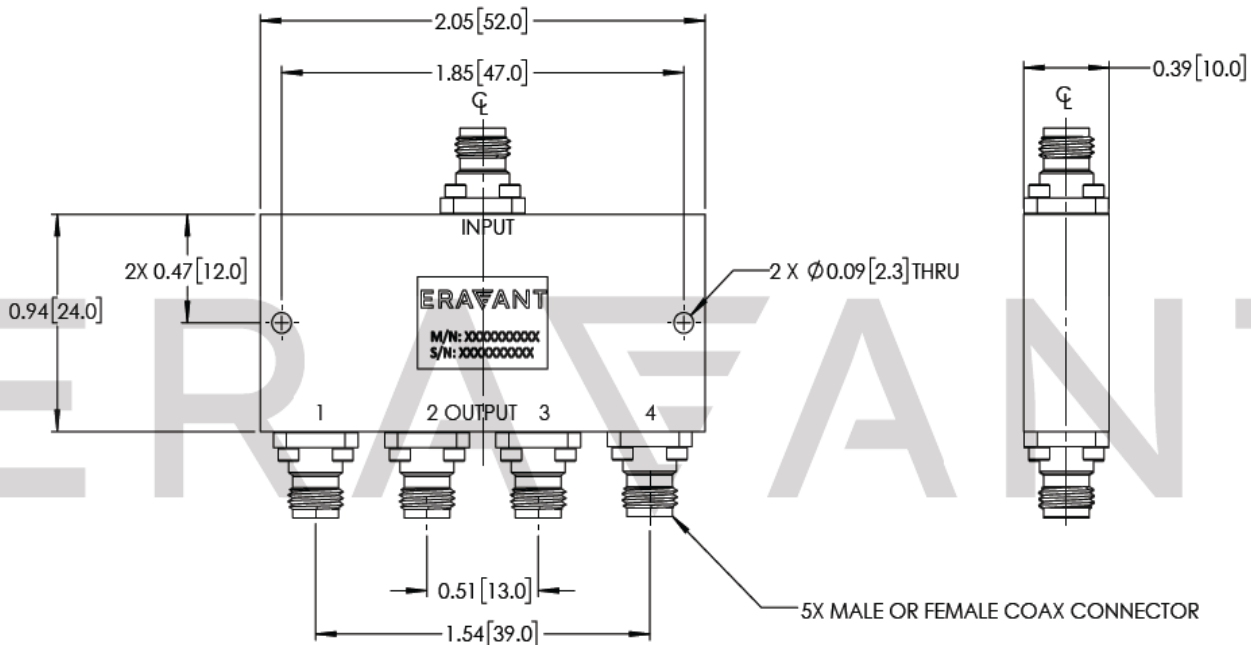
### SUPPLEMENTAL DETAILS



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### 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:  $4.0 \pm 0.15$  inch-pounds ( $0.45 \pm 0.02$  Nm). Torque wrench model [SCH-06004-S1](#) is highly recommended.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied:  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm). Torque wrench model [SCH-08008-S1](#) is highly recommended