

PRECISION RF SHORT

GENERAL FEATURES

- High reflection coefficient
- Broadband frequency coverage
- Small size and light weight
- Rugged construction



DESCRIPTION & APPLICATIONS

Type RFS Precision Shorts have been designed to give as perfect a total reflection as possible when used in a 50 ohm system with SMA connectors. The reflection coefficient is typically .99 or better. Other connectors and impedance levels are also available.

These devices are used wherever a precision broadband total reflection is required with the phase reversal of an RF Short. Phase shift measurements, power measurements, reflectometer and many other experimental setups are adjusted and calibrated with these components. The distance from the short circuit to the connector reference plane may be adjusted to your specific requirements.

SPECIFICATIONS

- Frequency DC - 18.0 GHz
- Reflection Coefficient . . . 0.95 min
- Impedance 50 Ohms
- Connector SMA or Type N

Model No.		Form	Length (In)
SMA Female	RFS-1F	5950-1	0.53 max
SMA Male	RFS-1M	5951-1	0.47 max
Type N Female	NRFS-1F	5950-2	0.88 max
Type N Male	NRFS-1M	5951-2	1.14 max

DC BLOCKS



Form 3258

SPECIFICATIONS

- Frequency Range 0.1-18 GHz
- Impedance 50 Ohms
- Insertion Loss 0.5 dB max
- VSWR 1.35 max
- Voltage 200 Volts max
- Connectors SMA or Type N, M/F

Model 1-9572 Outside Conductor DC Block contains capacitance in series with outer conductor which prevents the flow of DC and audio frequencies. This capacitance is designed for minimum interference with RF up to 18 GHz as evidenced by the low VSWR and insertion loss of this device. Similarly, ARRA Inside Conductor DC Blocks contain capacitance in series with the inner conductor whereas ARRA Inside/Outside Conductor DC Blocks contain capacitance in series with both the inner and outside conductors. Applications include signal source modulation leakage suppression, ground loop elimination, system signal-to-noise ratio improvement, test setup isolation, and other situations where undesired DC or audio flows in the system outer and/or inner conductor.

Block Type	SMA Models		Type N Models	
	Model No.	Length (In)	Model No.	Length (In)
Inside	1-9572D	1.20	N1-9572D	1.77
Outside	1-9572	1.20	N1-9572	1.92
Inside/Outside	1-9572E	1.20	N1-9572E	1.92