



## SG & SGC Series

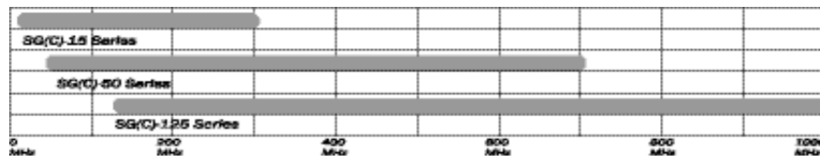
- Multi-strike, UL listed gas tube design reliably protects expensive transmitters and receivers.
- Integral mounting bracket for easy wall or panel installation; available 90° mounting adaptor.
- Designed for easy thru-panel or bulkhead installation.
- Stainless steel mounting hardware.
- Weather-sealed stainless steel case provides excellent corrosion resistance for reliable long-term performance.
- Connector weatherproofing is included, not an option at additional cost.
- Silver plated connectors feature TFE dielectrics and either gold (type N) or silver (UHF style) plated center pins.

### SG Series

50 Ohm general purpose surge arrestor for single channel radios; not recommended for use with combiners.

### SGC Series

50 Ohm general purpose surge arrestor engineered for high-power, multi band combiner operations.



#### SG-15 Series

Frequency Range: 15-300 MHz  
Power Rating: 550W 15-300MHz

#### SGC-15 Series

Frequency Range: 15-300 MHz  
Power Rating: 1000W 15-300MHz

#### SG-50 Series

Frequency Range: 50-700 MHz  
Power Rating: 550W@50-220 MHz; 300W@220-700 MHz

#### SGC-50 Series

Frequency Range: 50-700 MHz  
Power Rating: 1000W@50-220 MHz; 750W@220-700 MHz

#### SG-125 Series

Frequency Range: 125-1000 MHz  
Power Rating: 550W@125-220 MHz; 300W@220-1000 MHz

#### SGC-125 Series

Frequency Range: 125-1000 MHz  
Power Rating: 1000W@125-220 MHz; 750W@220-1000 MHz

## Electrical and Mechanical Specifications

Type: DC Blocked Gas Tube  
Connectors: Type N female  
VSWR:  $\leq 1.1:1$  over freq.range  
Insertion Loss:  $< 0.10\text{dB}$   
Throughput:  $\leq 600\mu\text{J}$   
Surge: 20kA (8/20  $\mu\text{s}$ ), min. 5 surges  
Turn On: 350Vdc +/- 15%  
Turn On Time: 2.5  $\mu\text{s}$  for 2kV/ns  
Temp. Range: -40°C to +85°C  
Rel. Humidity: up to 95%  
Vibration: 1G at 5 Hz to 100 Hz  
Weatherproofing: Sealed case; connector sealant included.

Type: DC Blocked Gas Tube  
Connectors: Type N female  
VSWR:  $\leq 1.2:1$  over freq.range  
Insertion Loss:  $< 0.2\text{dB}$   
Throughput:  $\leq 500\mu\text{J}$   
Surge: 20kA (8/20  $\mu\text{s}$ ), min. 5 surges  
Turn On: 350Vdc +/- 15%  
Turn On Time: 2.5  $\mu\text{s}$  for 2kV/ns  
Temp. Range: -40°C to +85°C  
Rel. Humidity: up to 95%  
Vibration: 1G at 5 Hz to 100 Hz  
Weatherproofing: Sealed case; connector sealant included.

## SG Series—Flange Mount

	Model	Connectors (Antenna + Equipment)
15-300 MHz	SG-15NFNF	N/female + N/female
	SG-15NMNF	N/male + N/female
	SG-15NMNM	N/male + N/male
	SG-15UFUF	UHF/female + UHF/female
50-700 MHz**	SG-50NFNF	N/female + N/female
	SG-50NMNF	N/male + N/female
	SG-50NMNM	N/male + N/male
	SG-50UFUF	UHF/female + UHF/female
125-1000 MHz**	SG-125NFNF	N/female + N/female
	SG-125NMNF	N/male + N/female
	SG-125NMNM	N/male + N/male

\*\*UHF connectors are not recommended at operating frequencies over 450 MHz

## SGC Series—Flange Mount

	Model	Connectors (Antenna + Equipment)
15-300 MHz	SGC-15NFNF	N/female + N/female
	SGC-15NMNF	N/male + N/female
	SGC-15NMNM	N/male + N/male
	SGC-15UFUF	UHF/female + UHF/female
50-700 MHz**	SGC-50NFNF	N/female + N/female
	SGC-50NMNF	N/male + N/female
	SGC-50NMNM	N/male + N/male
	SGC-50UFUF	UHF/female + UHF/female
125-1000 MHz**	SGC-125NFNF	N/female + N/female
	SGC-125NMNF	N/male + N/female
	SGC-125NMNM	N/male + N/male

\*\*UHF connectors are not recommended at operating frequencies over 450 MHz

## SG Series—Bulkhead Mount

	Model	Connectors (Antenna/Equipment)
15-300 MHz	SG-15NINF	N/female bulkhead + N/female
	SG-15NINM	N/female bulkhead + N/male
50-700 MHz**	SG-50NINF	N/female bulkhead + N/female
	SG-50NINM	N/female bulkhead + N/male
125-1000 MHz**	SG-125NINF	N/female bulkhead + N/female
	SG-125NINM	N/female bulkhead + N/male

\*\*UHF connectors are not recommended at operating frequencies over 450 MHz

/B 90° inline mounting adaptor

## SGC Series—Bulkhead Mount

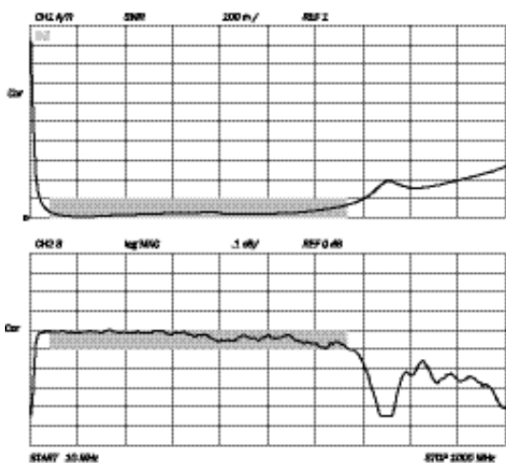
	Model	Connectors (Antenna/Equipment)
15-300 MHz	SGC-15NINF	N/female bulkhead + N/female
	SGC-15NINM	N/female bulkhead + N/male
50-700 MHz**	SGC-50NINF	N/female bulkhead + N/female
	SGC-50NINM	N/female bulkhead + N/male
125-1000 MHz**	SGC-125NINF	N/female bulkhead + N/female
	SGC-125NINM	N/female bulkhead + N/male

\*\*UHF connectors are not recommended at operating frequencies over 450 MHz

/B 90° inline mounting adaptor

Stocked Connector Options: NI (N female bulkhead); NM (N male); UF (SO-239); UI (SO-239 bulkhead) Special Order Connector Options: BF (BNC female); SF (SMA female); TF (TNC female)  
UHF and Type N connectors are MIL-C-39012, QQ-S365, QQ-B-626, QQ-C-530 and MIL-G-45204 (follows Mil STD 454J) certified. Solder is QQ-S-571 Sn62 compliant.

## Typical VSWR & Insertion Loss SG-50NFNF



## Typical VSWR & Insertion Loss SGC-50NFNF

