

# RF COAXIAL PROTECTOR



Offers robust and versatile broadband protection for radio telemetry or mobile communications system like Wireless LAN, ISM, MMDS, PCS, and other cellular base stations

- ◆ **Reliable RF performance from DC ~ 2GHz**
- ◆ **Multi-strike capability**
- ◆ **Bi-directional protection**
- ◆ **AC/DC pass**
- ◆ **High quality construction**
- ◆ **Full range of connector type**



**Reliable RF performance from DC ~ 2GHz** - LEPS CGP series of coaxial RF protectors are high performance gas discharge tube suppressor capable of wide-band operation from DC to 2GHz. Due to its versatile designs, it is ideal for Wireless LAN, ISM, MMDS, PCS and any other cellular base station protection.

**Multi-strike capability** - The gas tube element used is a carefully selected good quality, fast response and high surge rating elements which can minimized let-through voltage and capable of handling multi-strike in any lightning intensive environment.

**Bi-directional protection** - Both connector ports of this protector are equally protected. This provides protection no matter which way it is installed.

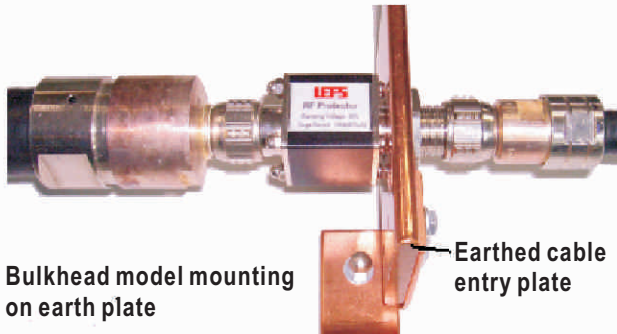
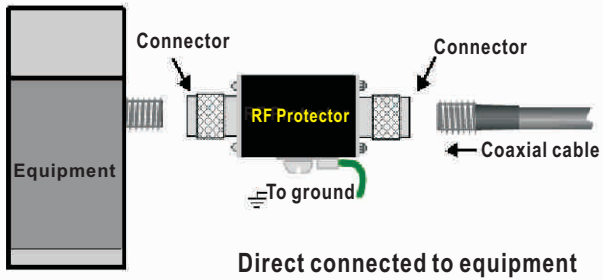
**AC/DC pass** - As it will pass AC/DC so it is suitable for applications where AC/DC is carried through the coaxial cable such as remote amplifier and LNAs in outdoor tower.

**High quality construction** - Every part of the CGP protector is engineered to industry's best quality standards which not only ensures superior RF performance but also makes it suitable to be used in any harsh environment.

**Full range of connector type** - No matter which type of connector is required, CGP series has the right model to meet the requirements.

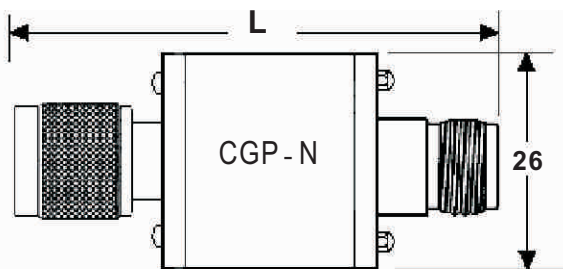


## Installation



For detail installation requirements, pls refer to relevant user manual.

## Dimensions and Weight



MODEL	L(mm)	WEIGHT(g)
CGP-B	58	61
CGP-B/R	58	60
CGP-N	65	91
CGP-N/R	65	89
CGP-U	64.5	80
CGP-F	58	61
CGP-T	60.7	67
CGP-SMA	51.3	52
CGP-SMB	47	50
CGP-SMB/R	47	51

## General Specifications

<i>Electrical Specifications:</i>	
SPD class(EN/IEC):	TYPE 2/Class II
Frequency range:	0-2GHz
VSWR:	<1.2:1
Return loss:	>26dB
Insertion loss:	<0.3dB
Impedance:	50Ω for all models 75Ω available for N,BNC, F, SMB)
Response time, tA:	<5ns
Peak surge rating, I <sub>max</sub> :	20KA(8/20μs)
DC sparkover voltage:	90V±20% (230, 350, 600, 1000V)
Maximum power:	0-2000W (see ordering information)
Standards compliance:	ITU(CCITT)1X K17 AS1768-2007 Cat.A.B.C BS EN/IEC 61643-21 CP33-1996 Cat.A.B.C UL497B
<i>Mechanical Specifications</i>	
Body material:	Anodized aluminum
Contact pin:	Brass(silver/gold plated)
Contact socket:	Beryllium or tin brass (silver/gold plated)
Elastic contact:	
Insulator:	PTFE
Earth connection:	Via M4 screw ground lug
Mounting:	L shape bracket (optional)
<i>Environmental Specifications:</i>	
Operating temperature, T <sub>u</sub> :	-40-85°C
Humidity:	0-95%(R.H.)
Altitude:	0-3650m
IP rating:	IP20
Salt fog:	MIL-STD-202 101D/B
Temperature shock:	MIL-STD-202 107D/A-1

# ORDERING INFORMATION



MODEL	PRODUCT DESCRIPTION	PHOTO/DRAWING
CGP-B	RF coaxial protector, RF power 0W-40W, BNC male/BNC female, 50Ω	
CGP-B230	RF coaxial protector, RF power 41W-125W, BNC male/BNC female, 50Ω	
CGP-B350	RF coaxial protector, RF power 126W-300W, BNC male/BNC female, 50Ω	
CGP-B600	RF coaxial protector, RF power 301W-800W, BNC male/BNC female, 50Ω	
CGP-B1000	RF coaxial protector, RF power 801W-2000W, BNC male/BNC female, 50Ω	
CGP-B/F	RF coaxial protector, RF power 0W-40W, BNC female/BNC female, 50Ω	
CGP-B230/F	RF coaxial protector, RF power 41W-125W, BNC female/BNC female, 50Ω	
CGP-B350/F	RF coaxial protector, RF power 126W-300W, BNC female/BNC female, 50Ω	
CGP-B600/F	RF coaxial protector, RF power 301W-800W, BNC female/BNC female, 50Ω	
CGP-B1000/F	RF coaxial protector, RF power 801W-2000W, BNC female/BNC female, 50Ω	
CGP-B/M	RF coaxial protector, RF power 0W-40W, BNC male/BNC male, 50Ω	
CGP-B230/M	RF coaxial protector, RF power 41W-125W, BNC male/BNC male, 50Ω	
CGP-B350/M	RF coaxial protector, RF power 126W-300W, BNC male/BNC male, 50Ω	
CGP-B600/M	RF coaxial protector, RF power 301W-800W, BNC male/BNC male, 50Ω	
CGP-B1000/M	RF coaxial protector, RF power 801W-2000W, BNC male/BNC male, 50Ω	
CGP-B/R	RF coaxial protector, RF power 0W-40W, BNC male/BNC female, 75Ω	
CGP-B230/R	RF coaxial protector, RF power 41W-125W, BNC male/BNC female, 75Ω	
CGP-B350/R	RF coaxial protector, RF power 126W-300W, BNC male/BNC female, 75Ω	
CGP-B600/R	RF coaxial protector, RF power 301W-800W, BNC male/BNC female, 75Ω	
CGP-B1000/R	RF coaxial protector, RF power 801W-2000W, BNC male/BNC female, 75Ω	
CGP-B/R/F	RF coaxial protector, RF power 0W-40W, BNC female/BNC female, 75Ω	
CGP-B230/R/F	RF coaxial protector, RF power 41W-125W, BNC female/BNC female, 75Ω	
CGP-B350/R/F	RF coaxial protector, RF power 126W-300W, BNC female/BNC female, 75Ω	
CGP-B600/R/F	RF coaxial protector, RF power 301W-800W, BNC female/BNC female, 75Ω	
CGP-B1000/R/F	RF coaxial protector, RF power 801W-2000W, BNC female/BNC female, 75Ω	
CGP-B/R/M	RF coaxial protector, RF power 0W-40W, BNC male/BNC male, 75Ω	
CGP-B230/R/M	RF coaxial protector, RF power 41W-125W, BNC male/BNC male, 75Ω	
CGP-B350/R/M	RF coaxial protector, RF power 126W-300W, BNC male/BNC male, 75Ω	
CGP-B600/R/M	RF coaxial protector, RF power 301W-800W, BNC male/BNC male, 75Ω	
CGP-B1000/R/M	RF coaxial protector, RF power 801W-2000W, BNC male/BNC male, 75Ω	
CGP-N	RF coaxial protector, RF power 0W-40W, N male/N female, 50Ω	
CGP-N230	RF coaxial protector, RF power 41W-125W, N male/N female, 50Ω	
CGP-N350	RF coaxial protector, RF power 126W-300W, N male/N female, 50Ω	
CGP-N600	RF coaxial protector, RF power 301W-800W, N male/N female, 50Ω	
CGP-N1000	RF coaxial protector, RF power 801W-2000W, N male/N female, 50Ω	
CGP-N/B	RF coaxial protector, RF power 0W-40W, N male/N female bulkhead, 50Ω	
CGP-N230/B	RF coaxial protector, RF power 41W-125W, N male/N female bulkhead, 50Ω	
CGP-N350/B	RF coaxial protector, RF power 126W-300W, N male/N female bulkhead, 50Ω	
CGP-N600/B	RF coaxial protector, RF power 301W-800W, N male/N female bulkhead, 50Ω	
CGP-N1000/B	RF coaxial protector, RF power 801W-2000W, N male/N female bulkhead, 50Ω	
CGP-N/F	RF coaxial protector, RF power 0W-40W, N female/N female, 50Ω	
CGP-N230/F	RF coaxial protector, RF power 41W-125W, N female/N female, 50Ω	
CGP-N350/F	RF coaxial protector, RF power 126W-300W, N female/N female, 50Ω	
CGP-N600/F	RF coaxial protector, RF power 301W-800W, N female/N female, 50Ω	
CGP-N1000/F	RF coaxial protector, RF power 801W-2000W, N female/N female, 50Ω	



# ORDERING INFORMATION

MODEL	PRODUCT DESCRIPTION	PHOTO/DRAWING
CGP-N/B/F	RF coaxial protector, RF power 0W-40W, N female/N female bulkhead, 50Ω	
CGP-N230/B/F	RF coaxial protector, RF power 41W-125W, N female/N female bulkhead, 50Ω	
CGP-N350/B/F	RF coaxial protector, RF power 126W-300W, N female/N female bulkhead, 50Ω	
CGP-N600/B/F	RF coaxial protector, RF power 301W-800W, N female/N female bulkhead, 50Ω	
CGP-N1000/B/F	RF coaxial protector, RF power 801W-2000W, N female/N female bulkhead, 50Ω	
CGP-N/M	RF coaxial protector, RF power 0W-40W, N male/N male, 50Ω	
CGP-N230/M	RF coaxial protector, RF power 41W-125W, N male/N male, 50Ω	
CGP-N350/M	RF coaxial protector, RF power 126W-300W, N male/N male, 50Ω	
CGP-N600/M	RF coaxial protector, RF power 301W-800W, N male/N male, 50Ω	
CGP-N1000/M	RF coaxial protector, RF power 801W-2000W, N male/N male, 50Ω	
CGP-N/R	RF coaxial protector, RF power 0W-40W, N male/N female, 75Ω	
CGP-N230/R	RF coaxial protector, RF power 41W-125W, N male/N female, 75Ω	
CGP-N350/R	RF coaxial protector, RF power 126W-300W, N male/N female, 75Ω	
CGP-N600/R	RF coaxial protector, RF power 301W-800W, N male/N female, 75Ω	
CGP-N1000/R	RF coaxial protector, RF power 801W-2000W, N male/N female, 75Ω	
CGP-N/R/B	RF coaxial protector, RF power 0W-40W, N male/N female bulkhead, 75Ω	
CGP-N230/R/B	RF coaxial protector, RF power 41W-125W, N male/N female bulkhead, 75Ω	
CGP-N350/R/B	RF coaxial protector, RF power 126W-300W, N male/N female bulkhead, 75Ω	
CGP-N600/R/B	RF coaxial protector, RF power 301W-800W, N male/N female bulkhead, 75Ω	
CGP-N1000/R/B	RF coaxial protector, RF power 801W-2000W, N male/N female bulkhead, 75Ω	
CGP-N/R/F	RF coaxial protector, RF power 0W-40W, N female/N female, 75Ω	
CGP-N230/R/F	RF coaxial protector, RF power 41W-125W, N female/N female, 75Ω	
CGP-N350/R/F	RF coaxial protector, RF power 126W-300W, N female/N female, 75Ω	
CGP-N600/R/F	RF coaxial protector, RF power 301W-800W, N female/N female, 75Ω	
CGP-N1000/R/F	RF coaxial protector, RF power 801W-2000W, N female/N female, 75Ω	
CGP-N/R/B/F	RF coaxial protector, RF power 0W-40W, N female/N female bulkhead, 75Ω	
CGP-N230/R/B/F	RF coaxial protector, RF power 41W-125W, N female/N female bulkhead, 75Ω	
CGP-N350/R/B/F	RF coaxial protector, RF power 126W-300W, N female/N female bulkhead, 75Ω	
CGP-N600/R/B/F	RF coaxial protector, RF power 301W-800W, N female/N female bulkhead, 75Ω	
CGP-N1000/R/B/F	RF coaxial protector, RF power 801W-2000W, N female/N female bulkhead, 75Ω	
CGP-N/R/M	RF coaxial protector, RF power 0W-40W, N male/N male, 75Ω	
CGP-N230/R/M	RF coaxial protector, RF power 41W-125W, N male/N male, 75Ω	
CGP-N350/R/M	RF coaxial protector, RF power 126W-300W, N male/N male, 75Ω	
CGP-N600/R/M	RF coaxial protector, RF power 301W-800W, N male/N male, 75Ω	
CGP-N1000/R/M	RF coaxial protector, RF power 801W-2000W, N male/N male, 75Ω	
CGP-F	RF coaxial protector, RF power 0W-40W, F male/F female, 75Ω	
CGP-F230	RF coaxial protector, RF power 41W-125W, F male/F female, 75Ω	
CGP-F350	RF coaxial protector, RF power 126W-300W, F male/F female, 75Ω	
CGP-F600	RF coaxial protector, RF power 301W-800W, F male/F female, 75Ω	
CGP-F1000	RF coaxial protector, RF power 801W-2000W, F male/F female, 75Ω	
CGP-F/F	RF coaxial protector, RF power 0W-40W, F female/F female, 75Ω	
CGP-F230/F	RF coaxial protector, RF power 41W-125W, F female/F female, 75Ω	
CGP-F350/F	RF coaxial protector, RF power 126W-300W, F female/F female, 75Ω	
CGP-F600/F	RF coaxial protector, RF power 301W-800W, F female/F female, 75Ω	
CGP-F1000/F	RF coaxial protector, RF power 801W-2000W, F female/F female, 75Ω	

# ORDERING INFORMATION



MODEL	PRODUCT DESCRIPTION	PHOTO/DRAWING
<b>CGP-F/M</b>	RF coaxial protector, RF power 0W-40W, F male/F male, 75Ω	
<b>CGP-F230/M</b>	RF coaxial protector, RF power 41W-125W, F male/F male, 75Ω	
<b>CGP-F350/M</b>	RF coaxial protector, RF power 126W-300W, F male/F male, 75Ω	
<b>CGP-F600/M</b>	RF coaxial protector, RF power 301W-800W, F male/F male, 75Ω	
<b>CGP-F1000/M</b>	RF coaxial protector, RF power 801W-2000W, F male/F male, 75Ω	
<b>CGP-T</b>	RF coaxial protector, RF power 0W-40W, TNC male/TNC female, 50Ω	
<b>CGP-T230</b>	RF coaxial protector, RF power 41W-125W, TNC male/TNC female, 50Ω	
<b>CGP-T350</b>	RF coaxial protector, RF power 126W-300W, TNC male/TNC female, 50Ω	
<b>CGP-T600</b>	RF coaxial protector, RF power 301W-800W, TNC male/TNC female, 50Ω	
<b>CGP-T1000</b>	RF coaxial protector, RF power 801W-2000W, TNC male/TNC female, 50Ω	
<b>CGP-T/F</b>	RF coaxial protector, RF power 0W-40W, TNC female/TNC female, 50Ω	
<b>CGP-T230/F</b>	RF coaxial protector, RF power 41W-125W, TNC female/TNC female, 50Ω	
<b>CGP-T350/F</b>	RF coaxial protector, RF power 126W-300W, TNC female/TNC female, 50Ω	
<b>CGP-T600/F</b>	RF coaxial protector, RF power 301W-800W, TNC female/TNC female, 50Ω	
<b>CGP-T1000/F</b>	RF coaxial protector, RF power 801W-2000W, TNC female/TNC female, 50Ω	
<b>CGP-T/M</b>	RF coaxial protector, RF power 0W-40W, TNC male/TNC male, 50Ω	
<b>CGP-T230/M</b>	RF coaxial protector, RF power 41W-125W, TNC male/TNC male, 50Ω	
<b>CGP-T350/M</b>	RF coaxial protector, RF power 126W-300W, TNC male/TNC male, 50Ω	
<b>CGP-T600/M</b>	RF coaxial protector, RF power 301W-800W, TNC male/TNC male, 50Ω	
<b>CGP-T1000/M</b>	RF coaxial protector, RF power 801W-2000W, TNC male/TNC male, 50Ω	
<b>CGP-SMA</b>	RF coaxial protector, RF power 0W-40W, SMA male/SMA female, 50Ω	
<b>CGP-SMA230</b>	RF coaxial protector, RF power 41W-125W, SMA male/SMA female, 50Ω	
<b>CGP-SMA350</b>	RF coaxial protector, RF power 126W-300W, SMA male/SMA female, 50Ω	
<b>CGP-SMA600</b>	RF coaxial protector, RF power 301W-800W, SMA male/SMA female, 50Ω	
<b>CGP-SMA1000</b>	RF coaxial protector, RF power 801W-2000W, SMA male/SMA female, 50Ω	
<b>CGP-SMA/F</b>	RF coaxial protector, RF power 0W-40W, SMA female/SMA female, 50Ω	
<b>CGP-SMA230/F</b>	RF coaxial protector, RF power 41W-125W, SMA female/SMA female, 50Ω	
<b>CGP-SMA350/F</b>	RF coaxial protector, RF power 126W-300W, SMA female/SMA female, 50Ω	
<b>CGP-SMA600/F</b>	RF coaxial protector, RF power 301W-800W, SMA female/SMA female, 50Ω	
<b>CGP-SMA1000/F</b>	RF coaxial protector, RF power 801W-2000W, SMA female/SMA female, 50Ω	
<b>CGP-SMA/M</b>	RF coaxial protector, RF power 0W-40W, SMA male/SMA male, 50Ω	
<b>CGP-SMA230/M</b>	RF coaxial protector, RF power 41W-125W, SMA male/SMA male, 50Ω	
<b>CGP-SMA350/M</b>	RF coaxial protector, RF power 126W-300W, SMA male/SMA male, 50Ω	
<b>CGP-SMA600/M</b>	RF coaxial protector, RF power 301W-800W, SMA male/SMA male, 50Ω	
<b>CGP-SMA1000/M</b>	RF coaxial protector, RF power 801W-2000W, SMA male/SMA male, 50Ω	
<b>CGP-SMB</b>	RF coaxial protector, RF power 0W-40W, SMB male/SMB female, 50Ω	
<b>CGP-SMB230</b>	RF coaxial protector, RF power 41W-125W, SMB male/SMB female, 50Ω	
<b>CGP-SMB350</b>	RF coaxial protector, RF power 126W-300W, SMB male/SMB female, 50Ω	
<b>CGP-SMB600</b>	RF coaxial protector, RF power 301W-800W, SMB male/SMB female, 50Ω	
<b>CGP-SMB1000</b>	RF coaxial protector, RF power 801W-2000W, SMB male/SMB female, 50Ω	
<b>CGP-SMB/F</b>	RF coaxial protector, RF power 0W-40W, SMB female/SMB female, 50Ω	
<b>CGP-SMB230/F</b>	RF coaxial protector, RF power 41W-125W, SMB female/SMB female, 50Ω	
<b>CGP-SMB350/F</b>	RF coaxial protector, RF power 126W-300W, SMB female/SMB female, 50Ω	
<b>CGP-SMB600/F</b>	RF coaxial protector, RF power 301W-800W, SMB female/SMB female, 50Ω	
<b>CGP-SMB1000/F</b>	RF coaxial protector, RF power 801W-2000W, SMB female/SMB female, 50Ω	

MODEL	PRODUCT DESCRIPTION	PHOTO/DRAWING
<b>CGP-SMB/M</b>	RF coaxial protector, RF power 0W-40W, SMB male/SMB male, 50Ω	
<b>CGP-SMB230/M</b>	RF coaxial protector, RF power 41W-125W, SMB male/SMB male, 50Ω	
<b>CGP-SMB350/M</b>	RF coaxial protector, RF power 126W-300W, SMB male/SMB male, 50Ω	
<b>CGP-SMB600/M</b>	RF coaxial protector, RF power 301W-800W, SMB male/SMB male, 50Ω	
<b>CGP-SMB1000/M</b>	RF coaxial protector, RF power 801W-2000W, SMB male/SMB male, 50Ω	
<b>CGP-SMB/R</b>	RF coaxial protector, RF power 0W-40W, SMB male/SMB female, 75Ω	
<b>CGP-SMB230/R</b>	RF coaxial protector, RF power 41W-125W, SMB male/SMB female, 75Ω	
<b>CGP-SMB350/R</b>	RF coaxial protector, RF power 126W-300W, SMB male/SMB female, 75Ω	
<b>CGP-SMB600/R</b>	RF coaxial protector, RF power 301W-800W, SMB male/SMB female, 75Ω	
<b>CGP-SMB1000/R</b>	RF coaxial protector, RF power 801W-2000W, SMB male/SMB female, 75Ω	
<b>CGP-SMB/R/F</b>	RF coaxial protector, RF power 0W-40W, SMB female/SMB female, 75Ω	
<b>CGP-SMB230/R/F</b>	RF coaxial protector, RF power 41W-125W, SMB female/SMB female, 75Ω	
<b>CGP-SMB350/R/F</b>	RF coaxial protector, RF power 126W-300W, SMB female/SMB female, 75Ω	
<b>CGP-SMB600/R/F</b>	RF coaxial protector, RF power 301W-800W, SMB female/SMB female, 75Ω	
<b>CGP-SMB1000/R/F</b>	RF coaxial protector, RF power 801W-2000W, SMB female/SMB female, 75Ω	
<b>CGP-SMB/R/M</b>	RF coaxial protector, RF power 0W-40W, SMB male/SMB male, 75Ω	
<b>CGP-SMB230/R/M</b>	RF coaxial protector, RF power 41W-125W, SMB male/SMB male, 75Ω	
<b>CGP-SMB350/R/M</b>	RF coaxial protector, RF power 126W-300W, SMB male/SMB male, 75Ω	
<b>CGP-SMB600/R/M</b>	RF coaxial protector, RF power 301W-800W, SMB male/SMB male, 75Ω	
<b>CGP-SMB1000/R/M</b>	RF coaxial protector, RF power 801W-2000W, SMB male/SMB male, 75Ω	
<b>B-CGP</b>	L shape Mounting bracket	
<b>* Other connector types are available on request.</b>		

