COAXIAL BANDPASS PROTECTOR

Offers versatile narrowband or broadband protection for radio telemetry and mobile communications system like cellular base stations, military communications and satellite earth stations

- **Reliable RF performance**
- **Multi-technolgy design**
- **High power and low throughput energy**
- **Low loss and low intermodulation**
- **Optional DC injection facility**
- **High quality and robust construction**
- **Full range of connector type**

Reliable RF performance -LEPS CBP series of bandpass RF protectors has a variety of models from narrowband(single channel) to wideband(multi-channel) for different requirements and offering reliable and consistent RF response over the range from 50MHz to 2.7GHz

Multi-technolgy design -No single technology has excellent performance in all aspects. CBP protectors use different technology for different requirements. We have the traditional quarter wave stub protector, the gas tube with bandpass filter, the new quarter wave stubless bandpass protector for different applications.

High power and low throughput energy -CBP series protectors not only superior in its RF performance, surge suppression performance but they can also handling high power up to 2000W with extremely low let-through voltage and energy than the traditional direct gas tube protectors

Low loss and low intermodulation - Wideband(multi-channel) feeder systems are becoming more and more popular in the modern telecom system application . A low insertion loss and intermodulation capability is a key factor for the high quality transmission of the signals, CBP series protectors are the right choice.

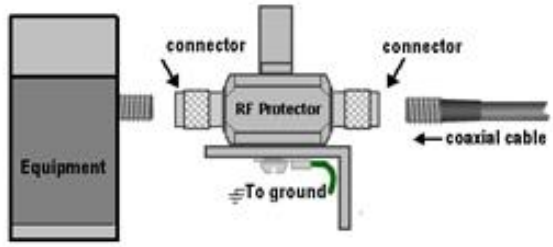
Optional DC injection facility - Telecom sites where dc is required to add onto the coaxial cable to power up tower top electronics , active antennas or amplifier, an optional dc injection facility is available

High quality and robust construction -Every part of the CBP 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 CBP series has the choice.

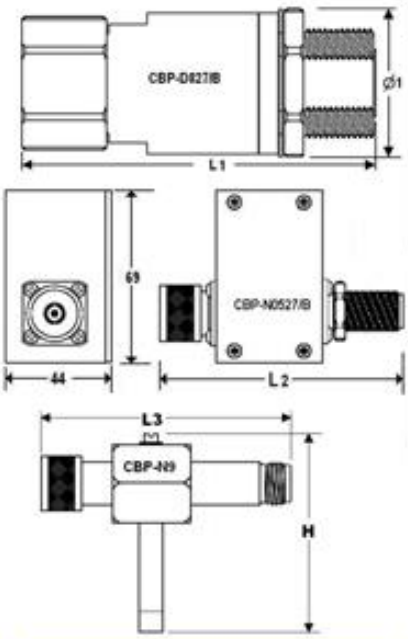
SPECIFICATIONS AND DRAWINGS

Installation



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

Dimensions



	L1	ø1	L2	L3	H
CBP-N9	-	-	-	64	93
CBP-N9/B	-	-	-	81	93
CBP-D9	-	-	-	71	111
CBP-D9/B	-	-	-	81	111
CBP-N18	-	-	-	64	58
CBP-N18/B	-	-	-	81	58
CBP-D18	-	-	-	71	66
CBP-D18/B	-	-	-	81	66
CBP-N827	72	38	-	-	-
CBP-N827/B	72	38	-	-	-
CBP-D827	94	38	-	-	-
CBP-D827/B	94	38	-	-	-
CBP-N0527	-	-	70	-	-
CBP-N0527/B	-	-	70	-	-
CBP-D0527	-	-	92	-	-
CBP-D0527/B	-	-	92	-	-

Ordering Information

MODEL	DESCRIPTION	CONNECTOR	WEIGHT
CB P-N 9	880 -960MHz,	N female to male	250g
CB P-N9/ B	coaxial	N female to male, bulkhead	270g
CB P-D 9	bandpass	7/16 female to male	320g
CBP-D9/B	protector	7/16 female to male, bulkhead	350g
CB P-N18	1710 -1990MHz,	N female to male	160g
CB P-N18/ B	coaxial	N female to male, bulkhead	175 g
CB P-D18	bandpass	7/16 female to male	230g
CBP-D18/B	protector	7/16 female to male, bulkhead	260g
CB P-N827	800 -2700MHz,	N female to male	100g
CB P-N827/ B	coaxial	N female to male, bulkhead	110g
CB P-D827	bandpass	7/16 female to male	430g
CBP-D827/B	protector	7/16 female to male, bulkhead	460g
CB P-N0527	50 -2700MHz,	N female to male	520g
CB P-N0527/ B	coaxial	N female to male, bulkhead	540g
CB P-D0527	bandpass	7/16 female to male	590g
CBP-D0527/B	protector	7/16 female to male, bulkhead	620g

Notes:

(1) The above protector are all DC blocked models. DC pass(DC injection)models are available on requested. For DC passing applications, pls add "/V" a nd the required nominal DC voltage at the suffix of the model number when order.

(2) The above models are female to male If male/male(MM) or female /female(FF) connector type is required, add "/M" or "/F" respectively at the end of the model number before order ing. e.g. For 800MHz-2700MHz frequency range, N female to female and 6V DC injection is required, pls specify the model: CBP-N 827/F/V6

(3) The above models are all 50 Ω impedance Other connector type and 75 Ω i mpedance are available on requested

General Specifications

Electrical Specifications:

Frequency range: See ordering information

VSWR: <1.1: 1

Return loss: >26dB

Insertion loss: <0.1dB

IM3: -160dBm(CBP-x827, CBP-x0527))

Throughput energy: <170μJ (3KA,8/20 μ s)

Peak surge rating: 20KA(8/20 μ s) - (CBP-x0527)
100KA(8/20 μ s)- all other models

Maximum power: 2000W

Standards compliance: ITU(CCITT)1X K17
AS1768-2003 Cat.A.B.C
BS6651-1999 Cat.A.B.C
CP33-1996 Cat.A.B.C
IEC 61643-21
UL497B

Mechanical Specifications:

Body material: Brass (Nickel plated)

Contact pin: Brass(silver/gold plated)

Contact socket: Beryllium or tin brass (silver/gold plated)

Elastic contact: Beryllium or tin brass (Silver/nickel plated)

Insulator: PTFE

O-ring material: Silastic

Earth connection: Via M4 screw ground lug
Or bulkhead
L shape bracket (optional)
Ground plate (bulkhead modelsl)

Mounting:

Environmental Specifications:

Operating temperature: -40-85℃

Humidity: 0-95% (R.H.)

Altitude: 0-3650m

IP rating: IP65

Moisture resistance: Salt fog: MIL-STD-202 Method 106D

Temperture shock: MIL-STD-202 101D/B

Vibration: MIL-STD-202 107D/A-1

MIL-STD-202 Mehtod 204D/B

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