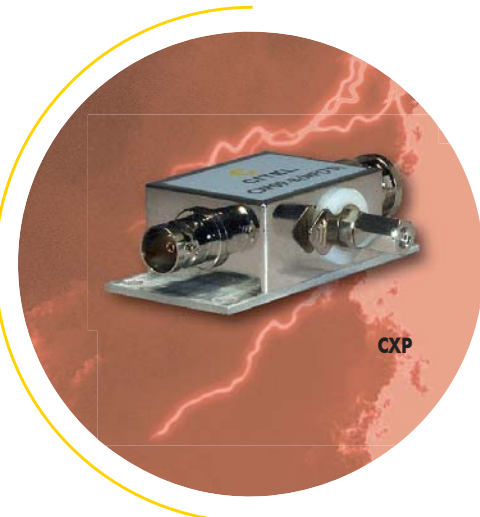


Coaxial network and CATV Surge Protectors

CXC ,CXP , CNP



CXP



CXC



CNP

CX surge protectors are designed to protect sensitive equipment, connected to coaxial lines as computer networks, video-transmission, against transient surge voltages and disturbances created by lightning. Several versions are available to fit the different networks :

CXC

Gas tube/Clamping diode hybrid association allowing heavy discharge current and low residual voltage.

These surge protectors are specially well adapted high frequency coaxial transmission as Ethernet 10Base5 or 10Base2, or video-transmissions.

CXP

Based on single Gas tube protection stage for heavy discharge current and very wide bandwidth (up to 1000 MHz).

Particularly adapted to TV or Radio receivers.

CNP-90TV

Cost effective version dedicated to TV receptors (Aerial, Cable or Satellite). Based on Gas Tube protection. F type connector in/out.

CXP-DCB

Version built with extra decoupling line circuit (DC block) to prevent DC or low frequency currents and to improve the residual voltage on surge voltages.

CX surge protectors are built with shielded metallic housings and are available with the main types of coaxial connectors.

Coaxial surge protectors

Multiples diagrams :

- GDT
- GDT/Diodes
- DC Block

Different connectors

Low insertion losses

Characteristics

| CITEL part number | CXC | CNP-90TV | CXP | CXP-DCB |
|---|--|---|---|--------------|
| Application | Ethernet 10Base2, Videotransmission | TV Aerial, Satellite or Câble | TV, Radiocom | TV, Radiocom |
| Bande passante (fmax) | 0-70 MHz | 0-1000 MHz | 0-1000 MHz | 125-1000 MHz |
| Insertion loss @ fmax | < 0.6 dB | < 0.3 dB | < 0.15 dB | < 0.15 dB |
| Max. line voltage (Uc) | 6 V* | 75 V | 60 V* | 60 V* |
| Protection level (Up) @ In (8/20 µs impulse) | 25 V / < 600 V (L-B / B-PE**) | < 600 V | < 600 V | < 200 V |
| Nominal discharge current (In) 8/20µs impulse - 10 times | 2.5 kA / 10 kA (L-B / B-PE**) | 2.5 kA / 10 kA (L-B / B-PE)** | 10 kA | 10 kA |
| Mechanical characteristics | Tinned Brass housing Cable mounting Dimensions : see diagram Earthing by wire | Plastic+metal housing Frame mounting Dimensions : see diagram Earthing by wire | Tinned Brass housing Frame mounting Dimensions : see diagram Earthing on screw | |
| Operating temperature | -40/+80°C | -40/+80°C | -40/+80°C | |

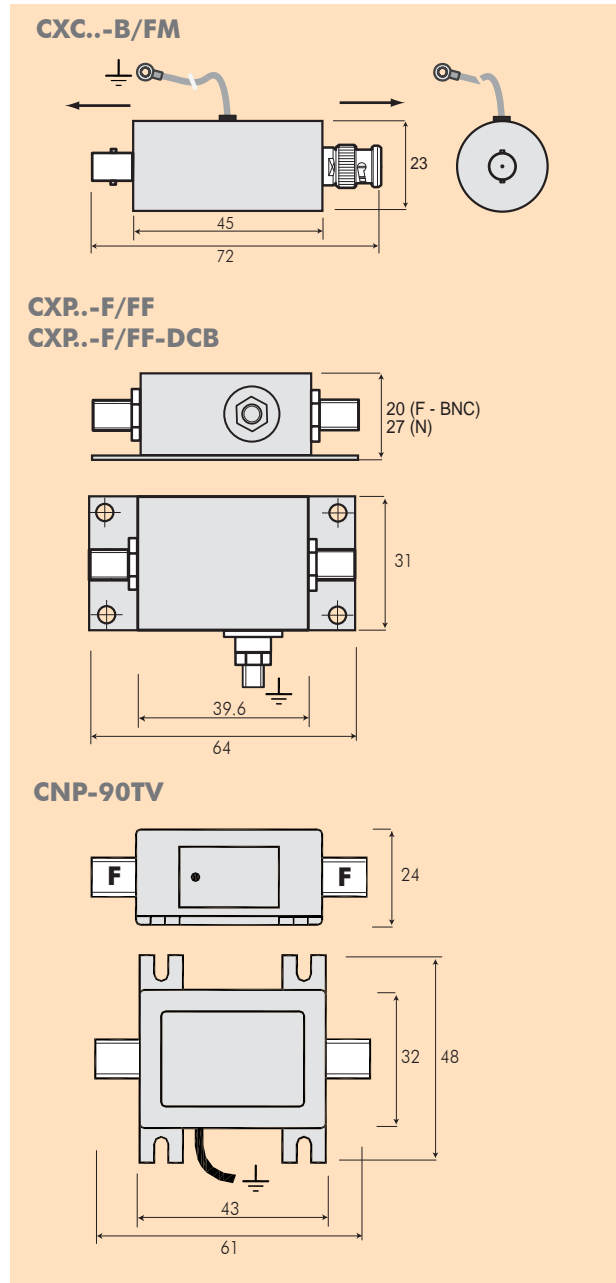
*) other voltages available on request

**) L-B : Line-Shield / B-PE : Shield-Ground

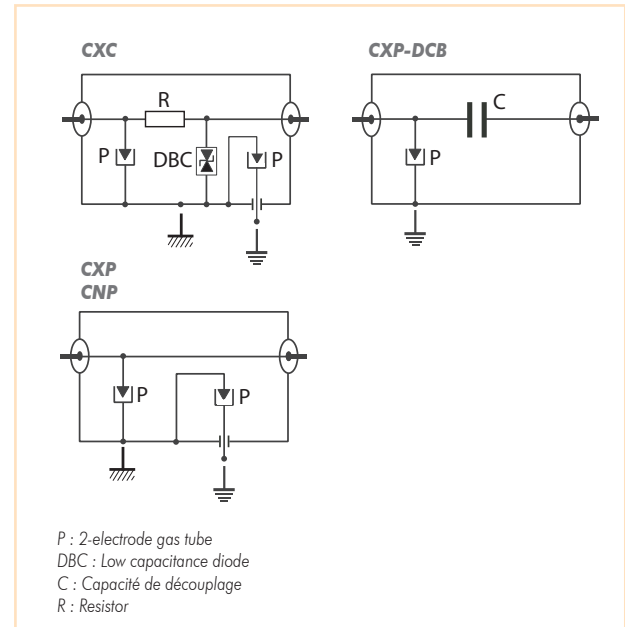
Coaxial network and CATV Surge Protectors

CXC , CXP , CXP-DCB , CXD

Dimensions (in mm)



Electrical diagram



Part number

| CITEL part number | CXC06* | CXP* | CXP-DCB* | CNP* |
|-------------------|------------|------------|-----------------|---------------|
| F Connector | - | CXP09-F/MF | CXP09-F/MF-DCB | CNP-90TV F/MF |
| | - | - | CXP09-F/FM-DCB | - |
| | - | CXP09-F/FF | CXP09-F/FF-DCB | CNP-90TV F/FF |
| N Connecto | - | - | CXP09-NW/MF-DCB | - |
| | - | - | CXP25-N/MF-DCB | - |
| | - | - | CXP09-NW/FF-DCB | - |
| BNC Connector | CXC06-B/MF | CXP09-B/MF | CXP09-B/MF-DCB | CNP-90TV B/MF |
| | CXC06-B/FM | - | CXP09-B/FM-DCB | - |
| | CXC06-B/FF | CXP09-B/FF | CXP09-B/FF-DCB | CNP-90TV B/FF |

MF : input Male/output Female
 FM : input Female/output Male
 FF : input Female/output Female
 W : Feedthrough mounting
 *) others configurations possible on request.