DIVERSIFIED POWER SOLUTIONS

CX06-MP
CX06-MIP
Analog Video &
Data Applications/Coax

Surge Protective Device

Technical Documentation

CX06-MP

CX06-MIP

The ***PEMCO CX06 Series*** Surge Protective Devices (SPDs) implement three-stage hybrid technology. The SPDs address over-voltage transients with a primary Gas Discharge Tube (GDT) and secondary Silicon Avalanche Diode (SAD) components. Over-current protection, e.g. sneak and fault currents, are mitigated with solid-state resettable fuses — PTCs.

CX06 Series SPDs are designed in accordance with NFPA 780 (2004 edition) requirements, with up to 20kA of surge current capability. They have an isolated ground option and are recommended for use at the camera-end.

General Technical Specifications	
Operating Voltage	5 VDC
Clamping Voltage	6 VDC
Operating Current	0.15 A
Peak Surge Current	20 kA (8 x 20 µs)
Frequency Range	0 to 20 MHz
Insertion Loss	< 0.1 dB at 20 MHz
Response Time	< 0.5 ns
SPD Technology	GDT, SAD, w/ Series PTC
Connection Type	BNC, 50/75 Ohm
Operating Temperature	-40°C to +85°C
Dimensions (in / mm)	CX06-MP = 1.5″ H x 1.0″ W x 3.25″ L [38.1 x 25.4 x 82.55 mm] CX06-MPI = 1.5″ H x 1.0″ W x 4.0″ L [38.1 x 25.4 x 101.6 mm]
Weight (oz / kg)	CX06-MP = 2.3 oz [0.07 kg] CX06-MPI = 3 oz [0.09 kg]
Certifications	UL 497B

Caution
Do not place this product in service on any signal line capable of supplying more than 150 mA continuously.

Key Specs

- **Voltage:** 0-5 VDC
- **Current:** 150mA
- **Connection:** BNC, 50/75 Ohm
- **Mounting:** Flange/DIN

**See Ordering Information for model number selection*

Features

- Sneak/fault current protection
- Low insertion loss
- Shielded case
- Models with isolated ground
- 5 year warranty

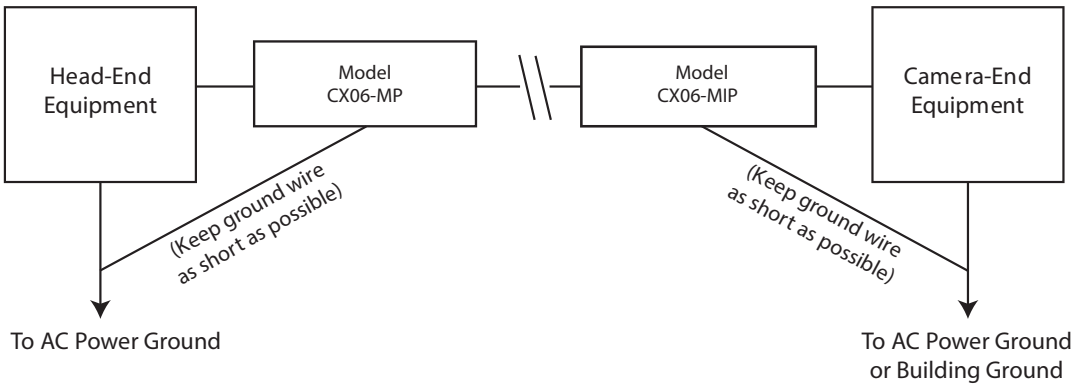
Certifications

- UL 497B

⚠ DANGER!

Only qualified personnel should install or service this system. Electrical safety precautions must be followed when installing or servicing this equipment. To prevent risk of electrical shock, turn off and lock out all power sources to the unit before making electrical connections or servicing.

Installation Instructions



Read and Understand These Instructions

These protectors are intended for indoor use on communication loop circuits which have been isolated from the Public Switch Telephone Network.

The communication loop circuits shall not be exposed to accidental contact with the electric light or power conductors.

The protectors shall be installed per the applicable requirements of the National Electric Code, ANSI/NFPA 70.

CX06-MP: Head-End Equipment Protection

A. Connect the CX06-MP in line with the coaxial cable. The side labeled “EQUIP” should be connected to the adjacent head-end equipment.
B. Connect incoming coaxial cable to the side of the CX06-MP labeled “CABLE”.
C. Connect a ground wire (10-12 AWG) between the CX06-MP ground terminal and the AC power ground of head-end equipment. Keep this wire as short and straight as possible.

CX06-MIP: Camera-End Protection (with Isolated Ground)

A. Connect the CX06-MIP in line with the coaxial cable. The side labeled “EQUIP” should be connected to the adjacent camera.
B. Connect incoming coaxial cable to the side of the PEMCO CX06-MIP labeled “CABLE”.
C. Connect a ground wire (10-12 AWG) between the PEMCO CX06-MIP ground terminal and either the AC power ground or equipment building ground at the camera location. Keep this wire as short and straight as possible.

Ordering Information

MODEL	APPLICATION
CX06-MP	Head-End
CX06-MIP (w/ Isolated Ground)	Camera-End
ACCESSORIES *Former Accessory Name*	
PCDIN *11604KIT-PC*	DIN Mounting Kit for CX06-MP

DPS
1030 Arlington Avenue North
St. Petersburg, FL 33705
Phone: (800) 862-4377
www.DiversifiedPower.com

USA Based

DIVERSIFIED POWER SOLUTIONS

Rev0 04-17