

Description:

The CPI-DG-CE is a double-galvanic barrel isolator, capable of fully isolating the in-home network from harmful voltages that could be present on the external CATV network.



CPI-DG-CE

Features & Benefits:

- Superior performance low-profile mechanical housing for easy and reliable installation
- Conforms to IEC 60728-11 Safety Requirements
- Meets IEEE C62.41 Cat B3 6kV combination wave surge rating
- Excellent screening effectiveness with increased rejection to Class A++ within LTE band
- 2mA safety leakage current at 230Vac (Max. 2mA @ +5 to 30° C)
- Bandwidth 5~1700 MHz
- 100% HI-POT test in production

Applications:

Premise, Multi-Dwelling Units (MDU) and Business.

Additional Info:

Specifications

Model		CPI-DG-CE			
Parameter	Port	Freq (MHz)	Min (dB)	Typical (dB)	Max (dB)
Insertion Loss	In > Out	5 – 470	–	0.2	0.5
		471 – 862	–	0.4	0.5
		863 – 1000	–	0.4	1.0
		1001 – 1700	–	0.5	1.3
		1701 – 2000	–	1.1	1.8
Return Loss	All Ports	5 – 1000	18	20	–
		1001 – 1700	16	20	–
		1701 – 2000	11	15	–
Impedance		75 OHM			
Surge Protection (See Note 1)		1kV 1.2μs/50μs input; <35V RMS output			
Screening Effectiveness: 0 To 30°C		Freq (MHz)	Min (dB)	Typical (dB)	Max (dB)
(See Note 2)		5	65	70	–
		6 – 7.9	70	75	–
		8 – 9.9	80	80	–
		10 – 12	85	85	–
		13 – 300	85	90	–
LTE Band		301 – 470	80	90	–
		471 – 699	75	85	–
		700 – 862	95	105	–
		863 – 1000	75	85	–
		1001 – 1700	55	60	–
Intermodulation p+q (min) (See Note 3)		1701 – 2000	55	60	–
		–	–	–	–120
Galvanic Isolation		Ports			
2120 VDC (See Note 4)		Inner Conductor (Input) to Inner Conductor (Output)			
2120 VDC (See Note 4)		Outer Conductor (Input) to Outer Conductor (Output)			
230 VAC (See Note 5)		Inner Conductor (Input) to Inner Conductor (Output)			
230 VAC (See Note 5)		Outer Conductor (input) to Outer Conductor (Output)			

Notes

- Level 2 Surge Immunity to IEC 61000-4-5
- 5-30 MHz (Coupling Unit Method according IEC 60728-2)
30-950 MHz (Absorption Clamp Method according IEC-60728-2 sec 4.4)
950-1000 MHz (Substitution Method) 1000-1700MHz CoMeT Triaxial Cell
NOTE: LTE 95dB min at 20°C Typical 105dB
- The inner and outer connections are capacitively coupled and have no internal ferrite transformer, as such, there is no passive intermodulation effect
- IEC-60728-11/10 Safety Requirements: 2120 Vdc ≥ 1 minute, I = ≤0.7mA
- IEC-60728-11/10 Safety Requirements: 230 Vac, I = ≤ 2.05mA (5degC to +30degC)

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Notes

Zinc Die Cast Housing with a White Bronze Plating

Product fully RoHS Compliant and CE marked

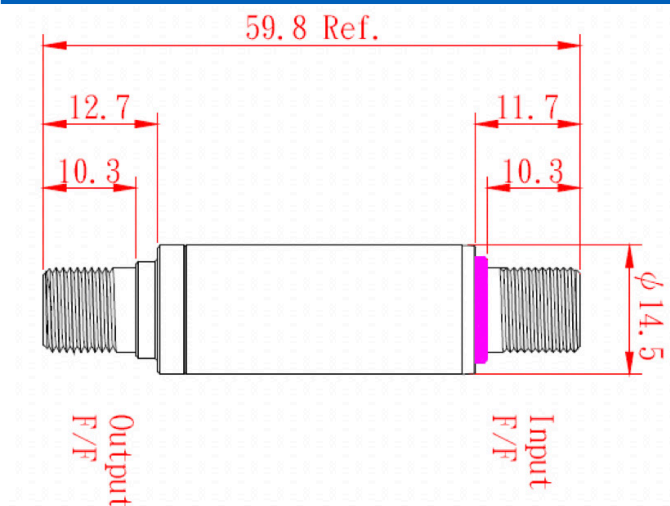
General

Dimensions 14.5 x 59.8mm

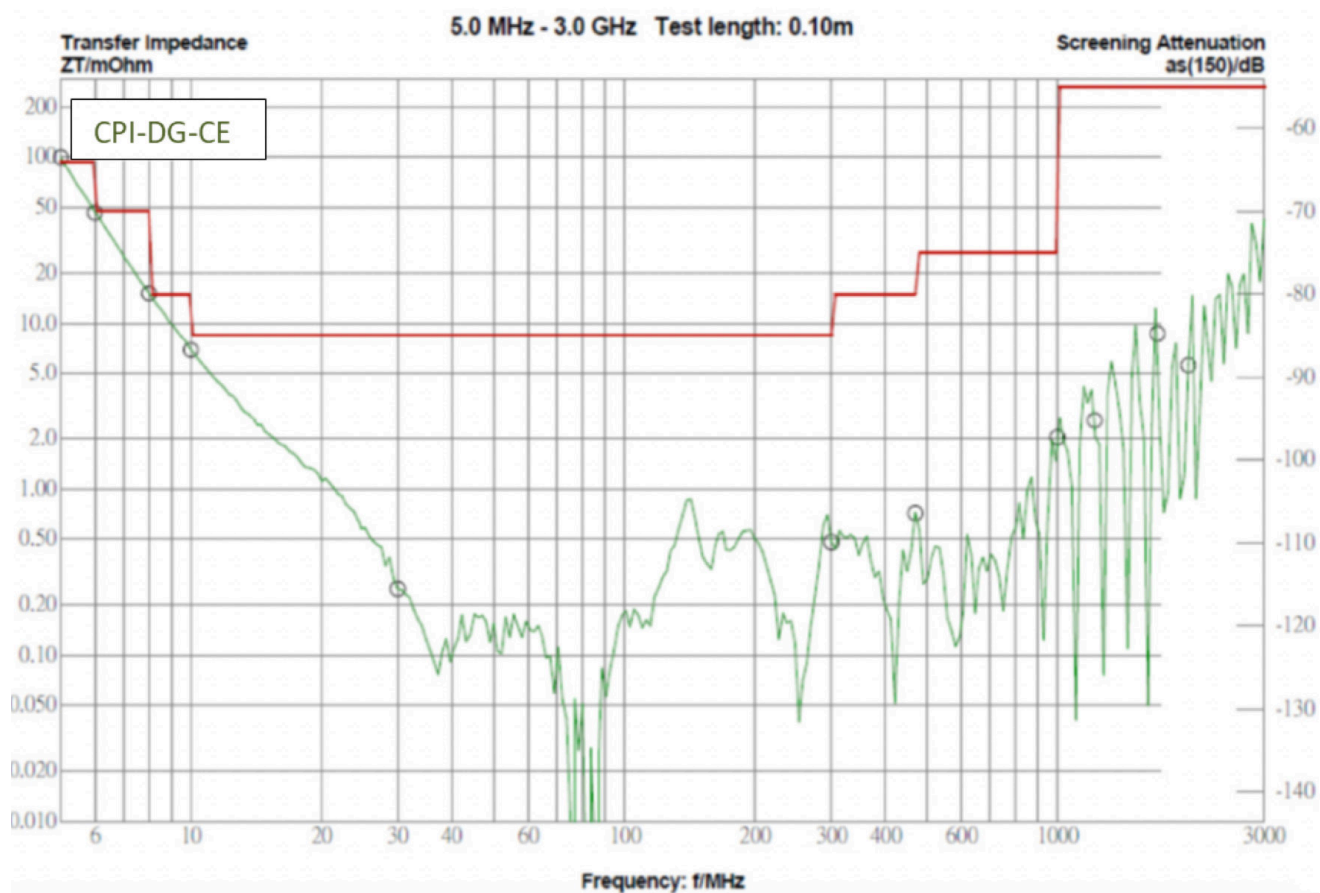
Operating Temperature -20 to +40°C

Mechanical Torque Strength 40lb-in min

Mechanical Outline



Screening Effectiveness - Typical



Customers are reminded they are SOLELY responsible for confirming that all products are properly installed and used in accordance with codes and regulations.