

211

In-Line® Coaxial Lightning Surge Protector

Improves Broadband
Network Reliability and
Reduces Service Outages

Designed For HFC or
FTTC Broadband Network
Application

Transparent To Analog/
Digital Bi-directional
Signal Transmission

Complies with NEC Article
830 Requirements

Provides Powerline Fault
Protection For Customer
Premises Equipment

Listed to UL 497C &
CSA Certified



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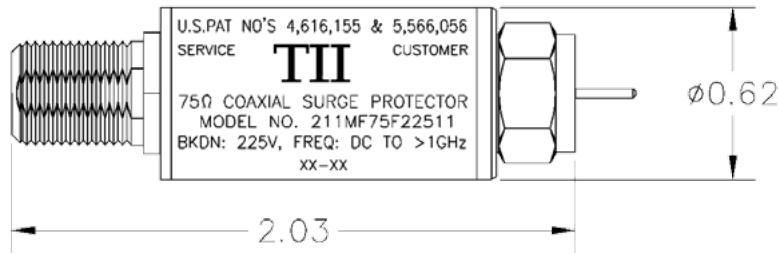
Tii's cutting edge In-Line® Coaxial Lightning Surge Protector protects personnel and customer premises equipment from lightning and power induced surges on coaxial drop cables. It is specifically designed for today's Broadband Hybrid Fiber-Coax (HFC) and Fiber-To-The-Curb (FTTC) distribution networks.

KEY PRODUCT BENEFITS

- ▶ Ideally suited to shield costly digital set-top boxes, expensive stereos and home equipment systems, sensitive internet cable modems, personal computers, big screen TVs and high-end HDTV sets from potentially damaging surges
- ▶ Can also protect satellite receivers in the cable headend
- ▶ Greatly increases drop system reliability and reduces service outages by protecting against induced high-voltage surges that may appear on the center conductor of a coaxial drop cable
- ▶ Unique In-Line® design is impedance matched to 75 ohms and is virtually transparent to all analog or digital bi-directional signals transmitted from DC to 1.0 GHz
- ▶ Tii's patented proprietary coaxial gas tube surge protector is equipped with an integral failshort mechanism for a power-cross condition. The DC breakdown voltage of the protector is low enough to protect against even the smallest transient surges, yet is compatible with network powered applications
- ▶ Metallic housing of the Tii In-Line® Coaxial Lightning Surge Protector provides adequate EMI shielding
- ▶ Protector is environmentally sealed to repel moisture and humidity encountered in broadband pedestals, vaults, NIDs and stand alone applications

INDUSTRY STANDARDS

- ▶ Listed to UL 497C & CSA Certified
- ▶ Complies with NEC Article 830 Requirements



Dimensions are in Inches

SPECIFICATIONS

RF PERFORMANCE

Frequency Range	DC to 1 GHz
Characteristic Impedance	75 ohms
Insertion Loss (includes Flatness)	< .3 dB
Return Loss Typical	20 dB

PROTECTION

DC Breakdown @ 2000V/sec	120 - 300 V
Impulse Breakdown @ 100V/μsec	<450 V
Insulation Resistance	>100 megohms
Surge Life*	
A. 10A, 10/1000 μsec	>1500 Surges
B. 100A, 10/1000 μsec	100 Surges
C. 300A, 10/1000 μsec	>10 Surges
D. 5000A, 8/20 μsec	>10 Surges
AC Life	
A. 5A, 1000 VAC, 1 sec	>5 Operations
B. 1A, 1000 VAC, 1 sec	>60 Operations
Failshort	30 A, 1000 VAC
Operating Temperature	>15 minutes
	-40°C to +65°C (-40°F to +149°F)

ORDERING INFORMATION

211	XX	75	F	225	1	X	X	
				RF Performance				
Connection Configuration	Impedance	Connector Type	Voltage Breakdown	Frequency	Insertion Loss	Return Loss	Failsafe	Grounding Option
FF = Female/Female MF = Male/Female	75 = 75 Ohms	F = "F"	225 = 150-300	5 MHz - 1GHz	< .3 dB	Typical -20dB	0 = None 1 = Failsafe	0 = None 1 = 6" #12 Grd Wire