Tii 210 & 212

In-Line® Coaxial Lightning Surge Protectors

Environmentally Sealed to 15 PSI

Meets SCTE "F" Port Connector Requirements

Meets UL Primary Surge Protection Requirements

Unique Patented In-Line® Coaxial Gas Tube Lightning Surge Protector

Designed for Broadband Network Applications

Transparent to Analog/Digital Bi-directional Signal Transmission

Impedance Matched to 75 Ohms

Power Passing

Insertion Loss 0.2 dB Typical

Return Loss 30dB Typical

Frequency Range DC - 1.0 GHz

Listed to UL 497 & CSA Certified



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Tii 210FF75F225-31



Tii 210MF75F225-31



Tii 212FF75F225-31

Tii's cutting edge In-Line® Coaxial Lightning Surge Protectors protect personnel and customer premises equipment, e.g. Televisions, Cable Set Top Boxes and Cable Modems from lightning and power induced surges on coaxial cables. It is specifically designed for today's Broadband signals carried over the coax cables.

KEY PRODUCT BENEFITS

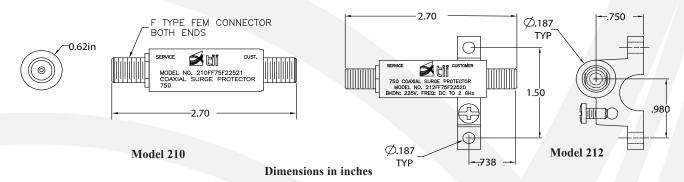
- Ideally suited to protect Broadband CATV subscriber's "COSTLY" HDTV receivers, DVRs, cable modems, home networking components and interfaces from potentially damaging surges.
- Will reduce "out of warranty" repair expense caused by surge lightning damage. Reduces service outages by protecting against 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 which shunts both the coaxial cable's center conductor and sheath for a common path to ground. The DC breakdown voltage of the protector provides superior protection against transient surges, yet is compatible with network powered applications.
- The protection element is designed to reset after each over voltage event.
- Metallic housing of the Tii In-Line® Coaxial Lightning Surge Protector provides necessary EMI shielding.
- When properly connected the protector is environmentally sealed (15 psi) to prevent ingress of moisture and humidity encountered in broadband pedestals, vaults, NIDs and stand alone applications.
- Full 360° "F" port connectors provide superior RF performance and tighter connections.

INDUSTRY STANDARDS

- Listed to UL 497C & CSA Certified.
- Meets and exceeds Telcordia GR 2908-CORE.
- Complies with 1999 National Electric Code Article 830
- Designed with full thread, flush face "F" type connectors which conform to ANSI/SCTE 01 1996R2001 specification.

www.tiinettech.com

Tii 210 & 212



S P E C I F I C A T I O N S

R.F. Performance			DC – 1.0 GHz	
Characteristic Impedance			75 Ohms	
Insertion Loss (includes Flatness) Return Loss			< 0.3 dB / 0.2dB Typical	
			30 dB Typical	
Protection:				
1.	DC Breakdown @ 2000 V/Sec		150 – 300 Volts	
2.	Impulse Breakdown @ 100 V/μSec		< 450 Volts	
3.	Insulation Resistance		>100 Megohms	
*4.	Surge Life:			
	A.	10 A, 10/1000 μSec.	>1500 Surges	
	B.	100 A, 10/1000 μSec.	>100 Surges	
	C.	1000 A, 10/250 μSec.	>10 Surges	
	D.	5000 A, 8/20 μSec.	>10 Surges	
5.	AC Life:			
	A.	5A, 1000 VAC, 1 Sec.	>5 Operations	
	B.	1A, 1000 VAC, 1 Sec.	>60 Operations	
6.	Failshort:			
	30A, 1000 VAC		> 15 Minutes	
7.	Operating Temperature		- 40° C to + 65° C	
			(- 40° F to 149° F)	

^{*}Figures given above are for service life only.

ORDERING

INFORMATION

Model No.	Description			
210FF75F225-31	Female/Female Connector Configuration, "F" Type Connector			
210FF75F225-311	Female/Female Connector Configuration, "F" Type Connector with 6' #12 Ground Wire			
210MF75F225-31	Male/Female Connector Configuration, "F" Type Connector			
212FF75F225-31	Female/Female Connector Configuration, "F" Type Connector with Integral Ground Block			
Standard Package:	50 pieces			
Weight (without grounding hardware):	210FF75F225-31	0.077 lbs. each		
	210MF75F225-31 212FF75F225-31	0.074 lbs. each		
		0.132 lbs. each		