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TECHNOLOGY GROUP

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Find the *TII Technologies 210MF75F22521* at our website: ***Click HERE***



TII 210 & 212 *In-Line® Coaxial Lightning Surge Protectors*

- Unique Patented In-Line® Coaxial Gas Tube Lightning Surge Protector
- Designed For HFC Or FTTC Broadband Network Application
- Transparent To Analog/Digital Bi-directional Signal Transmission
- Essential For DSS Type Wireless Applications
- Provides Lightning Surge Protection For Customer Premises And Headend Equipment
- Provides Powerline Fault Protection For Customer Premises Equipment
- Improves Broadband Network Reliability And Reduces Service Outages
- Impedance Matched To 75 Ohms
- Power Passing
- Integral Failshort Mechanism
- Return Loss 30 dB @ 1GHz (Typical)
- Insertion Loss <0.1 dB
- Frequency Range DC-1.5 GHz
- Listed To UL 497 & CSA Listed Certified



210FF75F22521



210MF75F22521



212FF75F22521

TII's cutting edge In-Line® Coaxial Lightning Surge Protectors protect 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, digital satellite TV systems, 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 1.5 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 prevent ingress of moisture and humidity encountered in broadband pedestals, vaults, NIDs and stand alone applications.

INDUSTRY STANDARDS

- Listed to UL 497 & CSA Listed Certified
- Complies with 1999 National Electric Code

TII network technologies, inc.

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TII 210 & 212

MODEL NUMBER MATRIX

Model No.	Connector Configuration	Impedance	Connector Type	Voltage Breakdown	RF Performance			Failsafe	Grounding Option
210	XX FF=Female/ Female MF=Male/Female RM=Rotating M/F	XX 75=75 ohms	X F="F"	XXX 225= 150-300	X			X 0=None 1=Failsafe	X 1=6" #12 Grd Wire 3=Ground Screw
					Frequency	Insertion Loss	Return Loss		
					1=(5 MHz-1 GHz) 2=(5 MHz-1 GHz)	< .2 dB < .1 dB	better than -20 dB better than -30 dB		

Model No. w/Integral Ground Block	Connector Configuration	Impedance	Connector Type	Voltage Breakdown	RF Performance			Failsafe	Grounding Option
212	XX FF=Female/ Female	XX 75=75 ohms	X F="F"	XXX 225= 150-300		X		X 0=None 1=Failsafe	X 1=6" #12 Grd Wire 2=Add'l nut
					Frequency	Insertion Loss	Return Loss		
					2=(5 MHz-1 GHz)	< .1 dB	better than -30 dB better than -20 dB		

SPECIFICATIONS

R.F. Performance	DC – 1.0GHz	1.0GHz – 1.5GHz
Characteristic Impedance	75 Ohms	75 Ohms
Insertion Loss (includes Flatness)	<0.1dB	<0.1 dB
Return Loss	30 dB	20 dB

Protection:

1. DC Breakdown @ 2000V/sec	150 – 300 Volts
2. Impulse Breakdown @ 100V/µsec	<450 Volts
3. Insulation Resistance	>100 Megohms
*4. Surge Life:	
A. 10A, 10/1000 µsec	>1500 Surges
B. 100A, 10/1000 µsec	>100 Surges
C. 1000A, 10/250 µsec	>10 Surges
D. 5000A, 8/20 µsec	>10 Surges
5. AC Life:	
A. 5A, 1000VAC, 1 Sec	>5 Operations
B. 1A, 1000VAC, 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.

Standard Package:	50 pieces	
Weight:	210FF75F22521	0.077 lbs. each
	210MF75F22521	0.074 lbs. each
	212FF75F22521	0.132 lbs. each

Patent No. 4,616,155

Customer Service (888) 844-4720 Toll Free • (631) 789-5020 • Fax: (631) 789-5063
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