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TECHNOLOGY GROUP

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PolyPhaser
an INFINITE brand

COAXIAL RF SURGE PROTECTION

GX Series

The GX Series of RF DC pass surge arrestors are engineered for RF coaxial applications where DC current is needed on the coaxial line. The GX Series can be used on GPS and other active antenna systems that operate in the range from DC to 2700 MHz. All GX arrestors are for 50Ω networks.



FEATURES

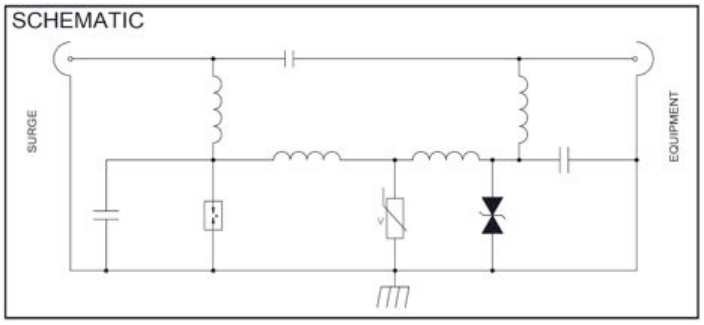
- Frequency ranges from DC to 2.7 GHz
- Patented hybrid surge protection
- Repeatable RF performance after surge
- Flexible bulkhead and bracket mounting options
- Weatherproof when installed
- 7/16" DIN, N-Type and TNC
- Designed for 50Ω networks

STANDARDS

- Weatherproof: IEC 60529 IP 67
- Bellcore TA-NWT-000487
- Procedure 4.11, Wind Driven (120 MPH)
- CE and RoHS

PATENTED LIGHTNING ARRESTOR TECHNOLOGY

The GX product family is based on PolyPhaser's patented hybrid protection technology. This hybrid circuit integrates the quick response of a silicon avalanche suppression diode (SASD) with the surge handling capabilities of a MOV and gas tube. The GX technology has been field tested for more than a decade and has been used in critical RF networks world-wide.



GENERAL SPECIFICATIONS*

Insertion Loss	≤0.1dB
VSWR	≤1.1 or Better Over Frequency Range
Return Loss	<26dB
Max Operational Current	4A
Typical Surge Withstand	20kA 8/20µs Waveform
GXJ Bias-T	SMA Connector as DC Injector

1st Three Identifiers	Frequency Range
AGX	DC to 50MHz
BGX	40MHz to 400MHz
CGX	400MHz to 1200MHz
DGX	800MHz to 2500MHz
Type	**Description**
E	Extended Frequency
H	High Power
J	Bias-T w/ Injector Port
Z	DC-Pass
Connector Types	**Description**
D	7/16" DIN
N	N-Type
T	TNC

Example of Naming Convention for GX Family**

D	GX	J	+	06	D	M	F -	A
Frequency Band	Series	Type	Positivity	Voltage	Surge Side Connector Type	Surge Side Connector Gender	Protected Side Connector Gender	Lid Configuration

*Confirm with product specific datasheet for detailed specifications
**Not all combinations available

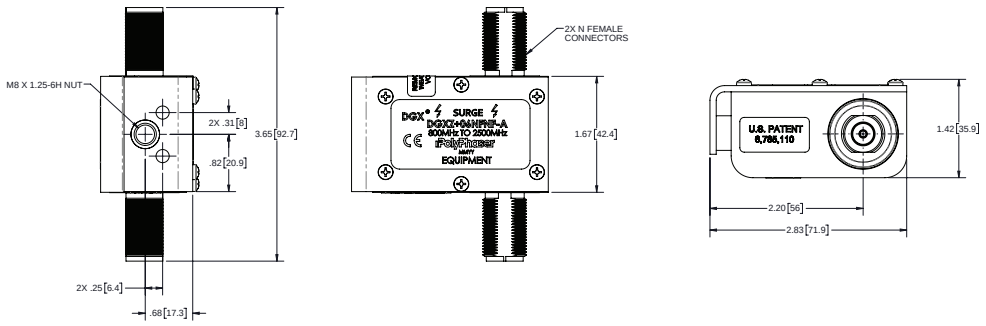
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AVAILABLE GX PART NUMBERS

Part Number	Frequency Rage	Connector	Operational Voltage	RF Power (RMS)	Let-Through Energy**
AGXZ+15TFTF-A	DC - 50MHz	TNC	15V	1W	≤1000µJ
BGXZ-60NFNF-ALT	40MHz - 400MHz	N-Type	60V	100W	≤2.5mJ
BGXZ-60NFNF-CNS	40MHz - 400MHz	N-Type	60V	100W	≤2.5mJ
BGXZ-60NFNM-ALT	40MHz - 400MHz	N-Type	60V	100W	≤2.5mJ
BGXZ-60NFNM-AS	5MHz - 400MHz	N-Type	60V	40W	≤2.5mJ
CGXJ+15NFNF-A	400MHz - 1.2GHz	N-Type	15V	300W	≤25µJ
CGXJ+36NFNF-A	400MHz - 1.2GHz	N-Type	36V	300W	≤25µJ
CGXZ+15NFNF-A	400MHz - 1.2GHz	N-Type	15V	300W	≤500µJ
CGXZ+15NMNF-A	400MHz - 1.2GHz	N-Type	15V	300W	≤500µJ
CGXZ+36NFNF-A	400MHz - 1.2GHz	N-Type	36V	300W	≤1500µJ
CGXZ+36NMNF-A	400MHz - 1.2GHz	N-Type	36V	300W	≤1000µJ
DGXE+24DMDF-A	400MHz - 2.5GHz	7/16" DIN	24V	600W	≤1mJ
DGXE+30NMNF-A	650MHz - 2.7GHz	N-Type	30V	400W	≤1.5mJ
DGXH+48DMDF-A	800MHz - 2.5GHz	7/16" DIN	48V	500W	≤146µJ
DGXJ+24NFNF-A	800MHz - 2.5GHz	N-Type	24V	300W	≤25µJ
DGXJ+24NFNM-A	800MHz - 2.5GHz	N-Type	24V	300W	≤25µJ
DGXZ+06DNMNF-Z	698MHZ - 2.7GHz	N-Type	6V	300W	≤175µJ
DGXZ+06DFDF-A	800MHz - 2.5GHz	7/16" DIN	6V	300W	≤175µJ
DGXZ+06DMDF-A	800MHz - 2.5GHz	7/16" DIN	6V	300W	≤175µJ
DGXZ+06NFNF-A	800MHz - 2.5GHz	N-Type	6V	300W	≤175µJ
DGXZ+06NFNF-B	800MHz - 2.5GHz	N-Type	6V	300W	≤175µJ
DGXZ+06NFNF-F	800MHz - 2.5GHz	N-Type	6V	300W	≤175µJ
DGXZ+06NFNM-A	800MHz - 2.5GHz	N-Type	6V	300W	≤175µJ
DGXZ+06NFNM-B	800MHz - 2.5GHz	N-Type	6V	300W	≤175µJ
DGXZ+06NMNF-A	800MHz - 2.5GHz	N-Type	6V	300W	≤175µJ
DGXZ+06NMNF-Z	800MHz - 2.5GHz	N-Type	6V	300W	≤175µJ
DGXZ+06TFTF-A	800MHz - 2.5GHz	TNC	6V	300W	≤175µJ
DGXZ+15DMDF-A	800MHz - 2.5GHz	7/16" DIN	15V	300W	≤500µJ
DGXZ+15NFNF-A	800MHz - 2.5GHz	N-Type	15V	300W	≤500µJ
DGXZ+15NFNM-A	800MHz - 2.5GHz	N-Type	15V	300W	≤500µJ
DGXZ+15NMNF-A	800MHz - 2.5GHz	N-Type	15V	300W	≤500µJ
DGXZ+15TFTF-A	800MHz - 2.5GHz	TNC	15V	300W	≤500µJ
DGXZ+15TFTF-BN	800MHz - 2.5GHz	TNC	15V	300W	≤500µJ
DGXZ+36NFNF-A	800MHz - 2.5GHz	N-Type	36V	300W	≤1.5mJ
DGXZ+36NMNF-A	800MHz - 2.5GHz	N-Type	36V	300W	≤1.5mJ
DGXZ-60NFNF-A	800MHz - 2.5GHz	N-Type	60V	300W	≤2.5mJ

** Measured under a 3kA 8/20us Waveform

DIMENSIONS



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