Novaris COAXIAL PROTECTION



RF Equipment Protection High Power

Novaris high power surge protectors suit applications including MF, HF and VHF transmitters to 50kW. The spark gap arrester has an optical arc sensor which may be used to momentarily interrupt the transmitter.

	CEIA - 078 - 1	
Product Series		Options
Connector Size		

CEIA-078 CEIA-158 CEIA-318

n*

Electrical Specifications				
Connection type		Series		
Modes of protection		Signal-Earth		
Maximum discharge current (8/20µs)		100kA		
Power rating		>50kW limited only by coaxial cable		
Surge element		Spark gap, gap setting: 2mm / 10kW		
Spark over voltage		2.6kV for 2mm gap		
Characteristic impednce		50Ω		
Insertion loss		<0.1dB to 500MHz		
		<0.2db to 1GHz (gap setting: 1mm)		
Return loss		>26dB to 500MHz		
		>20dB to 1GHz (gap setting: 1mm)		
Arc sensor		Optical detector utilising photodiode,		
		feeding transmitter interface		
		to provide momentary shutdown		
Power requirements	Arc sensor: 12VDC @ 35mA			
Transmission medium	Arc detector fed to transmitter via optic fibre.			
		Alternate metallic cable available.		

Standards Compliance		
ITU-T K.44		
AS/NZS 1768		
IEEE C62.41		
BS 6651		
CP 33		
IEC 61643-21		
UL497B		

Operating temperature / humidity	-40 to +85°0	-40 to +85°C / 5 to 95% non-condensing				
Connection type	7/8" EIA	1 5/8" EIA	3 1/8" EIA			
Mounting	E	Bulkhead / flange				
Environmental IP 55						
Enclosure	E	Brass and copper				
Options						
Spark gap only, no TX controller		Standard				
1RU 19" rack, one TX controller only		1				

^{*} Denotes number of TX controllers

3RU 19" rack, up to 14 TX controllers

Mechanical Specifications