

ENHANCED SURGE PROTECTION MODULES

5 PIN - HYBRID/CAT5e MODULE SERIES

4B6S-30e, 4B6S-75e, 4B6FS-240e & 4B6S-300e

5 PIN - CAT5e/Hybrid - Surge Protection Module



Product Specifications

UL 497 Primary Protector for Communication Circuits

The Hybrid/CAT5e Series 5 pin protector module offers the most extreme protection and fastest throughput available (1000 Mbps/1 Gbps and Clamping Speeds of 2 - 3 Nanoseconds) providing the bandwidth power to handle everything from POTs to VOIP, xDSL and your network.

The Hybrid/CAT5e Series employs multiple layers of protection to guard your most sensitive voice and data networks against any type of surge.

The 4 - Series features PTC (positive temperature coefficient) technology. These optional self-resetting current limiters provide effective protection from 'sneak current' faults. The PTC is vastly superior to the heat coil solution, which requires that the module be replaced after each 'sneak current' event.

Extreme, Heavy Duty Surge Handling Capabilities

Combines Gas Tube, Solid State and Silicone Avalanche Diodes for your most Sensitive Equipment

Certified Category 5e (1)

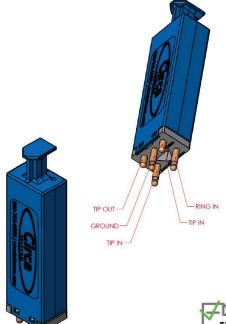
1000 Mbps/1 Gbps Speeds

UL and C UL Listed

2 - 3 Nanosecond Response Time

Integrated Test Points

ISO 9001 Certified Manufacturer







Ordering Information

Model Number	Stock Code	Application	Color	Clamping Voltage
4B6S-30e	780105	For Your Lowest Voltage Applications	Blue	30v
4B6S-75e	780115	Digital Lines, VOIP and Network Protection	Blue	75v
4B6FS-240e	780125	T1, xDSL and Analog Systems	Blue	240v
4B6S-300e	780135	High Bandwidth Over Long Distances	Blue	300v

⁽¹⁾ When used in conjunction with the Circa Telecom Enhanced Series of Building Entrance Terminals

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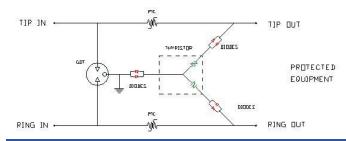


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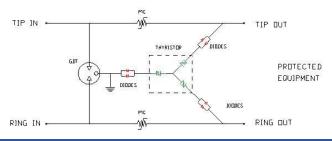
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Module	4B6S-30e 4B6S-75e	4B6FS-240e 4B6S-300e	
DC Break Over - @ 100V/µS	30V/75V	240V/300V	
Signal Rating			
Frequency	0 - 100 Mhz	0 - 100 Mhz	
Data Transfer Rate	0 - 1 Gbps	0 - 1 Gbps	
Max Impulse Life			
400A @ 8 x 20 μS	Unlimited Operations	Unlimited Operations	
10kA @ 8 x 20 μS	2	2	
Response Time	< 5 nanoseconds	< 5 nanoseconds	
Holding Current	50 mA/150 mA	150 mA	
Impulse Life			
@ 10A @ 10 x 1000/µS	Unlimited Operations	Unlimited Operations	
@ 100A @ 10 x 1000/μS	Unlimited Operations	Unlimited Operations	
AC Life			
@ 10 A rms 1S	> 5	> 5	
@ 1 A rms 1S	> 60	> 60	
@ 0.5 A rms 30S	>1	>1	
Capacitance			
1V rms @ 1Khz, 20V DC	< 20 pF	< 20 pF	
Insulation Resistance			
@ 50V DC	100M Ω	$100M~\Omega$	
Fail-Safe Operation			
@ 60A rms	< 3 Seconds	< 3 Seconds	
@ 120A rms	< 0.5 Seconds	< 0.5 Seconds	
@ 350A rms	< 0.1 Seconds	< 0.1 Seconds	
Current Limiters - Resettable PTC			
Hold Current @ 20° C	180 mA	180 mA	
Line Series Resistance	< 3 ♀	< 3 Ω	
Max Interrupting Current	3 A	3 A	

4B6S-30e & 4B6S-75e - Symmetrical



4B6FS-240e & 4B6S-300e - Symmetrical



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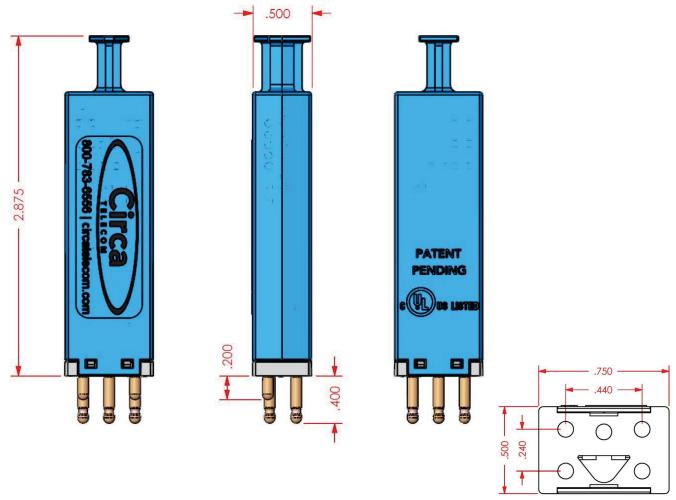
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Physical Dimensions

UL 497 Primary Protector for Communication Circuits



Notes

Pin alloy refers to tip and ring pins. Unless otherwise noted, all ground pins are tin.

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