

Features

- Patented (MSP®) Multi-Stage Protection
- Balanced TRIGARD®
- Self-resetting low resistance sneak current protection with Bourns® PPTC resistors
- Patented Switch-Grade Fail-Short device
- Quick response and high energy handling
- (4) UL Listed per UL497 (File E53117)
- Sealed option for harsh environments



2430 Series 5-Pin Surge Protector

Bourns® 5-pin Model 2430 is a new generation of Bourns® telecommunications protectors for superior performance and long life. The 2430 series protector provide highly reliable overvoltage and self-resetting sneak current protection for copper pair voice-band and high speed data circuits. The Bourns® MSP® device combines the advantages of gas tube and solid state protection, while integrating three advanced technologies: a proprietary high-effiency gas discharge tube, precision matched metal oxide varistors and a patented Switch-Grade Fail-Short mechanism. The unique Switch-Grade Fail-Short mechanism ensures superior thermal protection with fast acting, highly reliable response to thermal overload conditions. This combined technology provides lower capacitance, higher reliability and longer life than competitive hybrid technologies. Bourns® Multifuse® PPTCs are used for sneak current protection providing reliable and self-resetting performance with less than four ohms of resistance.

Bourns® 2430 protectors can be used universally for broadband voice and data circuits including ADSL, ADSL2+, VDSL2 and high-speed Ethernet. The 2430 series is an innovative, superior choice for 5 pin protection of copper pair circuits.

Characteristics

Test methods per UL 497, CSA C22.2, Telcordia GR 974, 1361 and SBC SR 5165.

DC Breakdown	300-400 V
AC Breakdown @ 60 Hz	
Impulse Breakdown	300- 4 00 V
100 V/us	600 V
1000 V/us	
Insulation Resistance @ 100 Vdc	
Insertion Loss @ 100 MHz	
Return Loss @ 100 MHz	
Capacitance Tip to Ring @ 1 MHz	
Capacitance Tip or Ring to Ground @ 1 MHz	23 pr typical
Impulse Reset 5	40 2
52 V, 260 mA	
135 V, 200 mA	
150 V, 200 mA	< 150 ms
Impulse Life Characteristics (Tip and Ring to Ground Simultaneously)	0000 " 2
10 A to 100 A, 10/1000 μs	> 3000 operations ²
300 A, 10/1000 μs	
500 A, 10/1000 μs	> 1000 operations 4
2,000 A, 10/250 µs	> 100 operations ²
5,000 A, 20/100 µs	
20,000 A, 8/20 μs	> 10 operations ⁴
AC Life Characteristics (Tip and Ring to Ground Simultaneously)	
0.5 A rms continuous	
1 A rms, 1 second, 600 ft. cable	
1 A rms, 1 second, 1 mile cable	
10 A rms, 1 second	
65 A rms, 11 cycles	
120 A rms, 0.1 second	
High Current Capability and Thermal Operation (T/R to Ground)	> 30 Arms, simultaneously
Storage and Operating Temperature	-55 to +85 °C
Sneak Current Characteristics	
Resistance (No Heat Coil Inductance)	
Transition Current @ -40 °C (800 mA), +20 ° C (540 mA), +65 °C (300 mA)	
Rated Current @ -40 °C (100 mA), +20 °C (100 mA), +65 °C (100 mA)	> 3 hours
Impulse Life 10 x 1000 μs @ -40 °C, +20 ° C, +65 °C	25 A ELTGS

Telcordia analyzed for controlled (non-sealed) and uncontrolled high exposure (sealed) environments per GR 974 and SBC SR 5165. Please refer to Telcordia Analysis Report DA-1547 Volumes 1 and 2.

Notes:

- ¹ Tested according to Category 5 requirements.
- ² Exceeds Telcordia (Bellcore) GR 1361.
- ³ Surpasses Telcordia GR 974.
- 4 RUS (REA) PE-80.
- ⁵ Network applied.

Line to Line voltage is approximately 1.8 to 2 times the stated Line to Ground breakdown voltage.

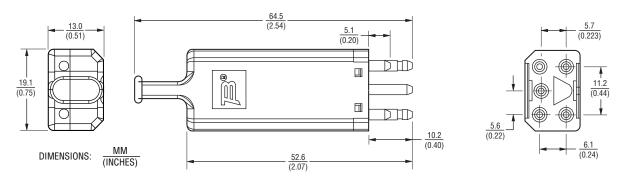


Features (Continued)

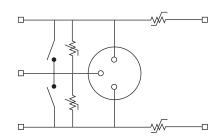
- Meets test requirements of GR 974, GR 1361, SBC SR 5165 and RUS PE-80
- Telcordia Analysis report DA-1547
- Ideal for high-speed networks in highexposure environments
- Solid brass, gold-plated pins
- Test point access option

2430 Series 5-Pin Surge Protector

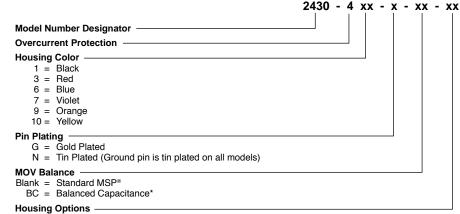
Product Dimensions



Schematic



How To Order



S = Sealed

T = Test Points

ST = Sealed and Test Points

Examples:

2430-41-G-T = Black housing, gold-plated pins, standard MSP®, 4 ohm, test points 2430-43-N-BC = Red housing, tin-plated pins, balanced capacitance MSP®, 4 ohm

*For use on DSL Systems that require balanced capacitance of ≤ 1 pF.

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REV. K 03/23

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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