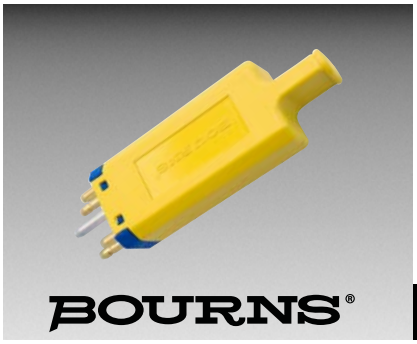

Features

- Self-resetting sneak current protection with Bourns® TBU® Electronic Current Limiter (ECL) for overcurrent and overvoltage protection
- Fast-acting
- High DC voltage
- Stable breakdown throughout life
- High bandwidth performance

Applications

- Telecommunications
- Data communications

2469 Series 5-Pin TBU® Surge Protector

The Bourns® 2469 Series Surge Protector Module incorporates Bourns® TBU® Electronic Current Limiters. Bourns® TBU® ECL devices are electronic circuit protectors that provide high-speed overcurrent protection. The Model 2469 is designed to fail "open" should a power cross or high current event occur.

Characteristics

Test Methods per UL 497, CSA C22.2, Telcordia GR 974 and 1361.

DC Breakdown		700 V typ. 670 V min. 800 V max.
Insulation Resistance	100 Vdc	> 100 MΩ
Voltage Control (V_{op}/V_{out})	1 kV/μs @ 25°C	670/800 V
Current Control (I_{op}/I_{out})	25°C	180/360 mA
Line Series Resistance		24 Ω typ.
Line Resistance Balance		0.5 Ω typ. / 1.0 Ω max.
Capacitance Tip to Ring	1 MHz	30 pF typ.
Capacitance Tip or Ring to Ground	1 MHz	30 pF typ.
Time-to-protect ($t_{protect}$)		10 μs
Impulse Life Characteristics (ELTGS)	10 A 10/1000 μs	Unlimited
	40 A, 10/1000 μs	Unlimited
	2.5 kA, 8/20 μs (ELTGS 5 kA total)	1 operation[1]
AC Life Characteristics (ELTGS)	600 Vrms 1 A 1 second fault	> 60 operations
	600 Vrms 5 A 1 second fault	1 operation[1]
Absolute Maximum Ratings		
Continuous AC Fault Voltage (V_{ac})		470 Vrms / 670 Vpeak
Impulse Discharge Current (I_{fault})	8/20 μs ELTGS	250 A
Storage and Operating Temperature		-55 to +85 °C

Notes:

[1] Fuse will fail open and disconnect from circuit.

Definitions:

V_{ac} .....Maximum blocking voltage for continuous AC faults; module shunts voltages greater than these ratings.

I_{fault} .....Maximum current-carrying capability of the module .

$V_{impulse}$ .....Maximum protection voltage for impulse faults ($V_{impulse} = I_{fault} \times R_{load}$).

V_{op} .....Maximum voltage on the input of the device that will not cause voltage limiting.

V_{out} .....Maximum voltage on the output of the device under any condition.

I_{op} .....Maximum current through the device that will not cause current blocking (at 85 °C, use 0.80 derating factor, linear throughout temperature range.

Iout .....Maximum current through the device under any condition (at 85 °C, use 0.80 derating factor, linear throughout temperature range.

tprotect .....Maximum time for the device to go from normal operating state to protected state.

ELTGS .....Each Line to Ground Simultanuously.

Line resistance balance.....Maximum difference in series resistance for tip/ring pair (line-line).

Consult factory for alternate specification values.

2469 Series 5-Pin TBU® Surge Protector

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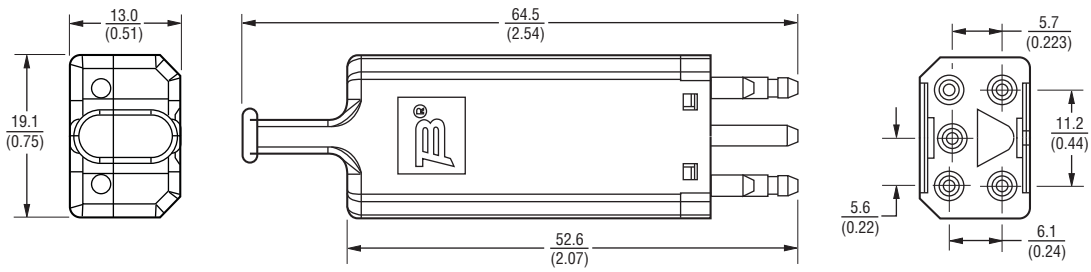
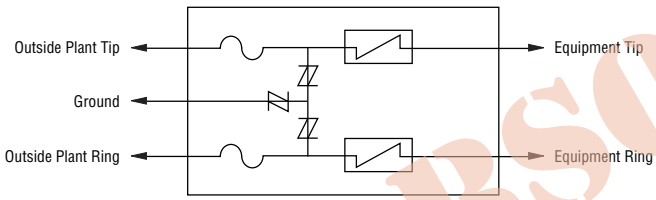
Product Dimensions



DIMENSIONS: MILLIMETERS / (INCHES)

Schematic



How to Order

2469 - 4 x(x) - x - x(x)

Model Number Designator

Housing Color/Circuit Type
- 1 = Black
- 3 = Red
- 6 = Blue
- 7 = Violet
- 9 = Orange
- 10 = Yellow

Pin Plating
- G = Gold-plated
- N = Tin-plated (GND pin is tin-plated on all models)

Special Options
- S = Sealed Case
- ST = Sealed Case and Test Points
- T = Test Points

BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116
Europe: Tel: +41-41 768 5555 • Fax: +41-41 768 5510
The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700
www.bourns.com

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