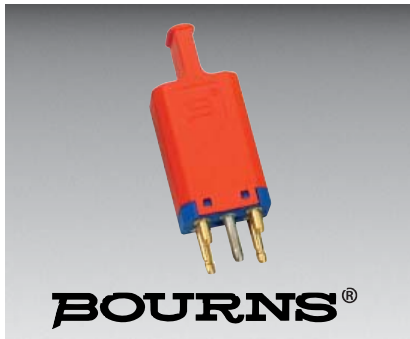




Features

- Patented Multi-stage protection (MSP®)
- Balanced TRIGARD®
- Patented Switch-Grade Fail-Short Device
- Quick response and high energy handling
- Ideal for high-speed networks in high exposure environments
- cUL IS LISTED per UL 497 (File: 53117)
- Meets test requirements of Telcordia GR 974, GR1361, SBC SR 5165 and RUS PE-80
- Telcordia Analysis report DA-1547
- Solid brass, gold-plated pins
- Test point access option
- Sealed option for harsh environments

2410 Series - 5-Pin Multi-Stage Protector (MSP®)

Bourns® 5-Pin Multi-Stage Protector (MSP®) is the latest generation telecommunications protector for high performance and long life in overvoltage protection of copper pair voice-band and high-speed data circuits. Bourns MSP® combines the advantages of gas tube and solid state protection while integrating three advanced technologies: a proprietary high-efficiency gas discharge tube, precision matched metal oxide varistors and a patented Switch-Grade Fail-Short mechanism. The 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® 2410 can be used universally for POTS and high speed data, e.g. ISDN, ADSL, ADSL2+, VDSL, VDSL2, other xDSL protocols and high speed Ethernet. Bourns® MSP® technology provides unparalleled overvoltage protection with low loss on paired copper communications circuits. The 2410 series is the most economical, reliable and effective choice for overvoltage 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	300-400 V
Impulse Breakdown	
100 V/μs	600 V
1000 V/μs	650 V
Insulation Resistance @ 100 Vdc	>1 GΩ
Insertion Loss @ 100 MHz	<0.4 dB ¹
Return Loss @ 100 MHz	>14 dB ¹
Capacitance Tip to Ring @ 1 MHz	10 pF typical
Capacitance Tip or Ring to Ground @ 1 MHz	20 pF typical
Impulse Reset ⁵	
52 V, 260 mA	<10 ms
135 V, 200 mA	<10 ms
150 V, 200 mA	<150 ms
Impulse Life Characteristics (Tip and Ring to Ground Simultaneously)	
10 to 100 A, 10/1000 μs	>3000 operations ²
300 A, 10/1000 μs	>1000 operations ²
500 A, 10/1000 μs	>1000 operations ⁴
2,000 A, 10/250 μs	>100 operations ²
5,000 A, 20/100 μs	>10 operations ²
20,000 A, 8/20 μs	>10 operations ⁴
AC Life Characteristics (Tip and Ring to Ground Simultaneously)	
0.5 A rms continuous	>30 seconds
1 A rms, 1 second, 600 ft. cable	>60 seconds
1 A rms, 1 second, 1 mile cable	>60 operations
10 A rms, 1 second	>5 operations
65 A rms, 11 cycles	>1 operation ³
120 A rms, 0.1 second	1 operation
High Current Capability and Thermal Operation (Tip and Ring to Ground, Vented or Non-Vented Gas Tube)	>30 A rms, simultaneously
Storage and Operating Temperature	-55 to +85 °C

Telcordia analyzed for controlled (non-sealed) and uncontrolled, high-exposure (sealed) environments per GR 974 and SBC SR 5165. Telcordia Technical Analysis Report DA-1547.

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.

2410 Series - 5-Pin Multi-Stage Protector (MSP®)

BOURNS®

How To Order

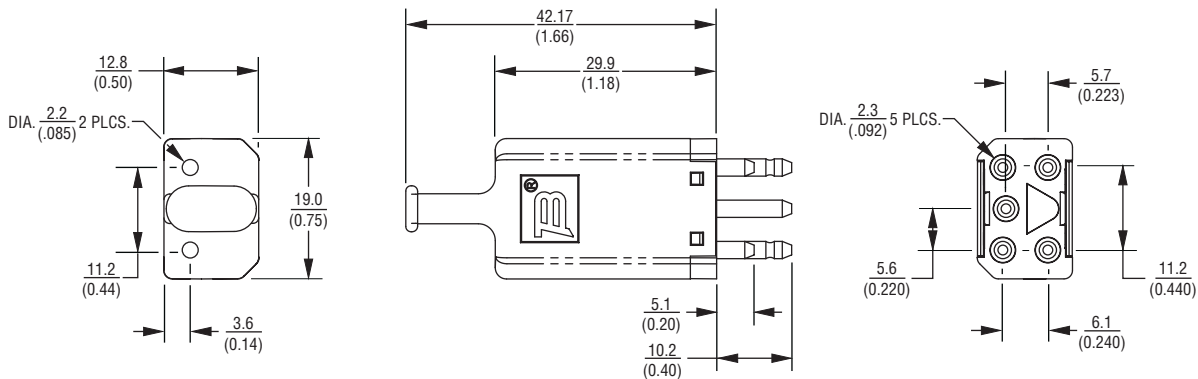
Model Number Designator	_____					2410 - X XX - X - XXX - XX
Module Length	_____					
3 = Standard: 52.37 mm (2.06 in.) 7 = Special Short: 41.19 mm (1.62 in.)						
Housing Color/Circuit Type	_____					
1 = Black/Standard 6 = Blue/Standard 10 = Yellow/Standard						
3 = Red/Special 9 = Orange/Standard Service (non-Bridgelifter)						
Pin Plating	_____					
G = Gold Plated N = Tin Plated						
Protector Type	_____					
MSP® = Multi-Stage Protector BC = Balanced Capacitance*						
Special Options	_____					
S = Sealed Case ST = Sealed Case and Test Points**						
T = Test Points**						

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

**T and ST options are not available on 2410-7x short module.

Product Dimensions

2410-3 MODULE



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$



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

REV. N 09/15/09

"MSP" and "TRIGARD" are registered trademarks of Bourns, Inc.
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9