

The background of the slide is a deep blue space filled with stars. On the left side, a portion of a globe is visible, showing landmasses and oceans. Overlaid on the entire background is a faint, light blue circuit board pattern. The Bourns logo is centered in the upper half of the image.

BOURNS®

领先全球之电路保护解决方案

JACK

TRIMMING POTENTIOMETERS

Product Range

Through-Hole Sealed

Multi-turn

3005 

3006 

3009 

3057 

3059 

3250 

3252 

3260 

3262 

3266 

3290 

3292 

3296 

3299 

Single-turn

3329 

3339 

3345 

3362 

3386 

Through-Hole Open-Frame

Multi-turn

N/A

Single-turn

3306  3352 

3309 

3319 

SMD Sealed

Multi-turn

3214 

3223 

3224 

3269 

Single-turn

3312 

3313 

3314 

3361 

SMD Open-Frame

Multi-turn

N/A

Single-turn

3302 

3303 

3364 

TC33 

TC42 

BOURNS®

Bourns® 保护器件分类

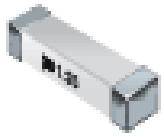
Multifuse®



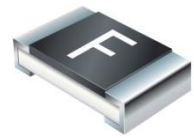
CPTC



Telefuse™



SinglFuse™

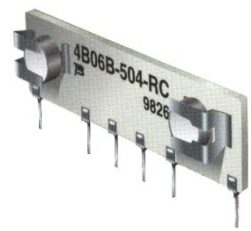


Over Current Protection

Over Voltage Protection



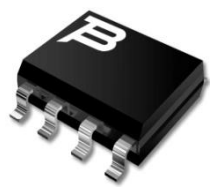
TBU™



LPM



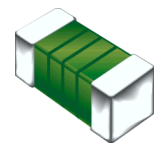
GDT



TISP®



TVS Diode



Chip Guard®



OSP

可恢复式保险丝



MF-SM Series
MF-SM/250 Series
MF-SMHT Series

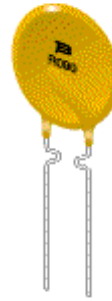


MF-SMDF Series
MF-MSMF Series
MF-USMF Series
MF-NSMF Series
MF-PSMF Series
MF-FSMF Series

Surface Mount Type

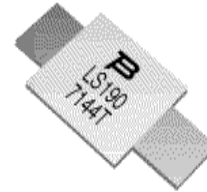


Custom Type



MF-R Series
MF-RX Series
MF-RX/250 Series
MF-RX/600 Series
MF-RHT Series
MF-RG Series

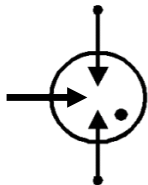
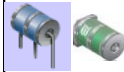
Radial Lead Type



MF-LS Series
MF-SVS Series
MF-VS Series
MF-LR Series

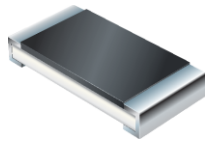
Strap Type

GDT气体放电管系列

Series	Description	Device Symbol	Part Photo	Key Parameters			
				Dimensions (Diameter x Length)	MAX Surge Rating 8/20us	DC Sparko Ver Range	Capacitance
2020-XX-XX	Fast Impulse 3-Pole Gas Discharge Tube			8mm x 11.2mm	10 kA	185 V, 360 V	<1 pF
2026-XX-XX	3-Pole Gas Discharge Tube			8mm x 11.2mm	40 kA	75 V to 600 V	<2 pF
2030-XX-SM	Fast Impulse 3-Pole Gas Discharge Tube			5mm x 7.5mm	4 kA	50 V, 185 V, 360 V	<1 pF
2036-XX-XX	Miniature 3-Pole Gas Discharge Tube			5mm x 7.5mm	20 kA	75 V to 600 V	<2 pF
2038-XX-XX	Symmetrical 3-Pole Gas Discharge Tube			5mm x 7.2mm	10 kA	150 V to 1100 V	<1 pF
2026-XX-XX-MSP	Multi-stage protector sub-assembly			8mm x 14mm	40 kA	230 V / 330 V	<20 pF
2027	2-Pole Gas Discharge Tube			8mm x 6mm	25 kA	90 V to 600 V	<1 pF
2031-XX-SM	Fast Impulse 2-Pole Gas Discharge Tube			5mm x 4mm	2 kA	50 V, 185 V, 360 V	<1 pF
2035-XX-XX	Miniature 2-Pole Gas Discharge Tube			5mm x 4mm	10 kA	90 V to 600 V	<1 pF
2037-XX-XX	Miniature 2-Pole Gas Discharge Tube			5mm x 5mm	10 kA	90 V to 600 V	<1 pF
2039-XX-XX	Miniature 2-Pole Gas Discharge Tube			5mm x 4mm	5 kA	600 V to 1100 V	<1 pF
4010-01	Surge Protector Test Set Suitable for GDTs and other technologies						

线性电阻

Metal Strip Chip Resistors
CRA2512, CRA2010
CRF2512, CRF1206



Features	Benefits
Low TCR (Temperature Coefficient of Resistance)	Stability over temperature range yields circuit performance stability
High Power (up to 3 Watts)	Lower cost for size vs power rating Surface mount processing vs thru hole

Thick Film Chip Resistors
CRM0805, CRM1206,
CRM2010, CRM2512,
CRM2512-FT



Wide Resistance Range	Suitable for multiple applications (one sample kit can reach many customers)
High Power (up to 2 Watts)	Lower cost for size vs power rating & older technology
Lightning Surge Resistance	Alternative to Mini-MELF technology

Metal Foil Resistors
PWR220/PWR221 S Series



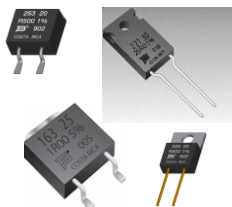
High Power (15 W / 30 A)	Can be used in high current measurements
Ultra Low TCR, 4 Pins	Good for precision measurements 4 pins accommodate Kelvin measurement



线性电阻的特点



Bare Metal Element Resistors
PWR220/PWR221 S Series



Thick Film High Power Resistors
PWR163S, PWR263S,
PWR220T, PWR221T



SMT Wire wound Resistors
PWR1913, PWR2010,
PWR3014, PWR4318,
PWR5322, PWR2615,
PWR4525, PWR6327



Features	Benefits
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High Pulse / Surge Capabilities	Good for current sense applications that are susceptible to spikes and transients
Low TCR (20 PPM)	Comparable to Manganin Shunt Resistors (many times the preferred material/technology)
Configurable, Quick turn-around with customized pitches and ratings	Time to market

Wide Resistance Range	Suitable for multiple applications (one sample kit can reach many customers)
High Overload capability (15 Joules in 0.1 seconds)	Necessary for Inverters, Drives

Wide Resistance Range	Suitable for multiple applications (one sample kit can reach many customers)
High Surge Capability (example 1 ohm can handle 600 A in 8/20 waveform)	Preferred choice for over-current Applications



BOURNS®

THANK YOU

领先全球之电路保护解决方案专家