

- Low TCR
- Low electrical noise
- Low inductance/capacitance
- High power rating
- Low ohmic values

Applications

- Power supplies
- Motor drives
- Test and measurement
- Electricity meters



PWR220 S Series Shunt Resistor

General Information

The Bourns® PWR220 S Series is a TO220 style Shunt Resistor. Manufactured using foil on alumina ceramic, it is used in applications such as power supplies, motor drives and measurements.

Electrical & Thermal Characteristics

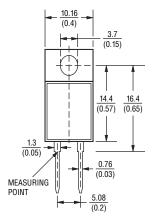
Parameter	Symbol	Min.	Nom.	Max.	Unit
Resistance	R	0.002		50	
Power Rating @ 70 °C without heat sink @ 70 °C with heat sink		10		1.50 15	W
Tolerance 0.002 < R < 0.01 0.01 < R < 0.10 0.10 < R < 50.0		2.0* 1.0** 0.5**		5.0 5.0 5.0	%
TCR 20 °C < T < 60 °C -40 °C < T < +130 °C				±15.0 ±50.0	PPM/°C
Thermal Resistance – Rthj (Max @ R < 50)				4.8	°C/W
Stability		0.1		0.5	%
Thermal EMF				1.0	μV/°C
Dielectric Withstanding Voltage				300	VDC
Operating Temperature	TJ	-40		+130	°CŽ 602

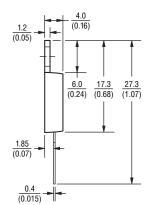
PWR220 S Series Shunt Resistor

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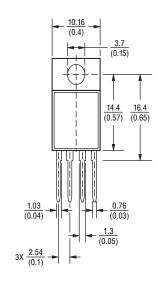
Product Dimensions

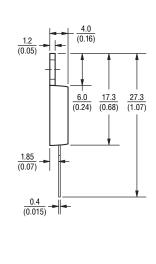
TO220 Housing: 2-Pin



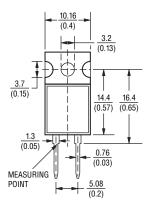


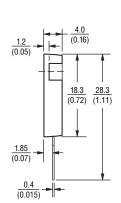
TO220 Housing: 4-Pin



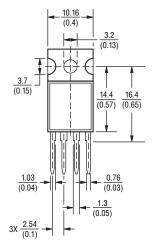


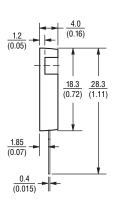
T0221 Casing: 2-Pin





T0221 Casing: 4-Pin



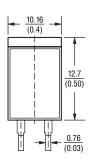


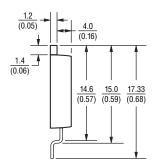
PWR220 S Series Shunt Resistor

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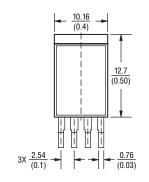
Product Dimensions

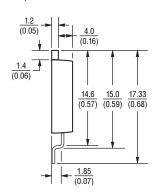
T0220 Casing: 2-Pin (Surface Mount)



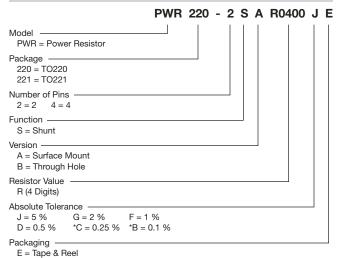


T0220 Casing: 4-Pin (Surface Mount)





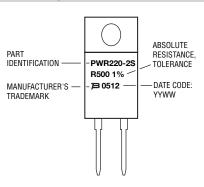
How to Order



*Available only with 4-pin versions.

_ = Tubes

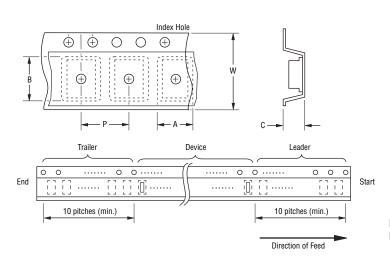
Typical Part Marking

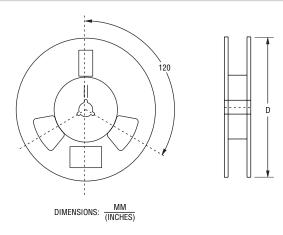


PWR220 S Series Shunt Resistor

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Packaging Dimensions





Devices are packed in accordance with EIA standard RS-481-A and specifications shown here.



Reliable Electronic Solutions