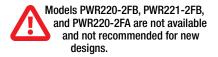


Features

- T0220 or T0221 housing
- Low inductance
- SMD and through hole versions
- High power rating



Models PWR220T-35, PWR221T-30, and PWR263S-35 are suggested alternatives.

PWR220/PWR221 F Series Power Resistors

Material Specifications

General Information

The Bourns® PWR220 F Series is a TO220 style Power Resistor; PWR221 F is a TO221 style Power Resistor. Manufactured using thick film on Alumina ceramic technology, it is used in applications such as power supplies, motor drives and measurements.

Electrical & Thermal Characteristics

Parameter	Symbol	Min.	Nom.	Max.	Unit
Resistance (Version A) (Version C & D)	R R	0.02 0.02		100K 15K	Ω Ω
Power Rating @ 70 °C in Free Air Power Rating with External Heat Sink (Version A) (Version C & D)				1.50 30 50	W W W
Tolerance $0.02~\Omega < R < 1.0~\Omega$ $1.0~\Omega < R < 100K~\Omega$		2.0 1.0		5.0 5.0	% %
TCR 0.1 Ω < R < 100.0K Ω 0.05 Ω < R < 0.099 Ω 0.02 Ω < R < 0.049 Ω				±100 ±300 ±600	PPM/°C PPM/°C PPM/°C
Thermal Resistance – Rthj (Version A) (Version C & D)			3.5 2.1		°C/W
Stability			0.5		%
Dielectric Withstanding Voltage				2	kV DC
Operating Temperature	TJ	-40		+155	°C

^{**}Tape & Reel is only available for Versions A and D.

Applications

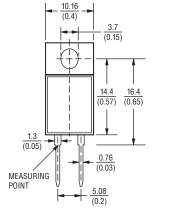
- Power supplies
- Motor drives
- Test and measurement
- Welding

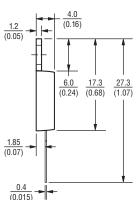
PWR220/PWR221 F Series Power Resistors

BOURNS®

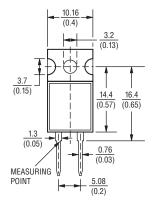
Product Dimensions

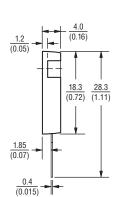
TO220 Housing: 2-Pin



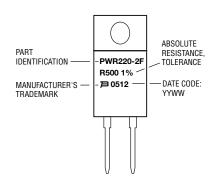


TO221 Casing: 2-Pin

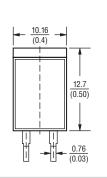


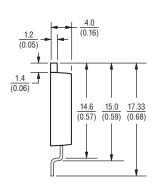


Typical Part Marking

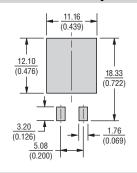


T0220 Casing: 2-Pin (Surface Mount)



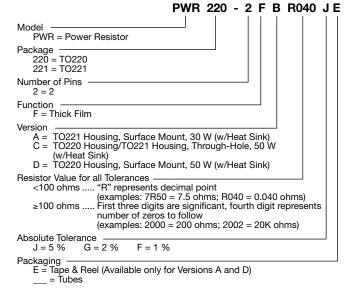


Recommended Pad Layout





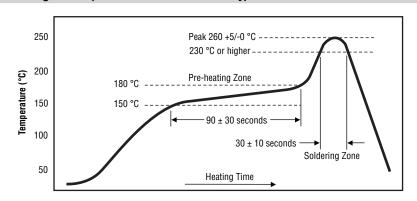
How to Order

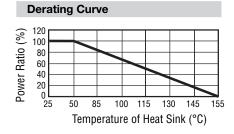


PWR220/PWR221 F Series Power Resistors

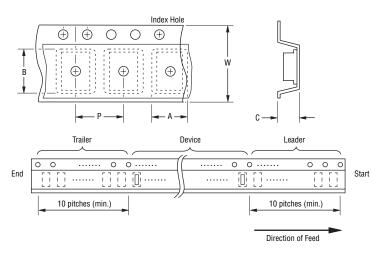
BOURNS®

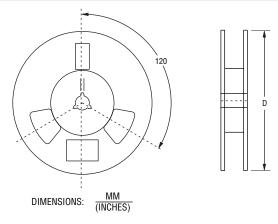
Soldering Profile (Surface Mount Version Only)





Packaging Dimensions





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

Item	Symbol	Dimensions
Carrier Width	А	10.4 (0.409)
Carrier Length	В	18.4 (0.724)
Carrier Depth	С	<u>4.4</u> (0.173)
Reel Outside Diameter	D	330 (12.992)
Punch Hole Pitch	Р	16.00 (0.630)
Tape Width	w	32 (1.260)
Quantity per Reel	_	500

REV. 06/11

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IGMF1R00C ERJ-1GMF1R20C ERJ-1GMF2R55C ERJ-1GMF8R66C 25121WF1003T4E 25.501.3653.0 290-1.0M-RC 292-1.0M-RC 292
2.2K-RC 292-4.7K-RC 25121WF4700T4E 292-470K-RC 302-1.0M-RC CPG1206F10KC CRCW02011R00FXED CRCW060315K0FKEE

CRCW060320K5FKEE CRG0201F10K RCG0402150RFKED RCG04023K92FKED RCP2512B100RGWB RCWP110010R0FKS3

RCWP11002K00FKS3 RCWP12061K00FKS2 3520510RJT 352075KJT M55342K11B9E53RUL RMC16-102JT RMC1JPTE TR0603MR
075K1L 5-2176094-4 35202K7JT WF06Q1000FTL ERJ-S03J1R0V ERJ-S14J4R7U CHP2512L4R30GNT CPCC10270R0JE32

RCWP11001K00FKS3