

### **Features**

- D<sup>2</sup>PAK housing
- Low inductance
- Resistor electrically isolated from the backplate
- High power rating
- Compatible with lead free solder reflow temperatures
- AEC-Q200 compliant
- RoHS compliant\*

## **PWR263S-20 Series Power Resistor**

#### **General Information**

Bourns® PWR263S-20 Series is a TO263 DPAK style power resistor manufactured using thick film on alumina ceramic technology, and used in current measurement, snubber, bleeder and discharge circuits.

### **Electrical & Thermal Characteristics**

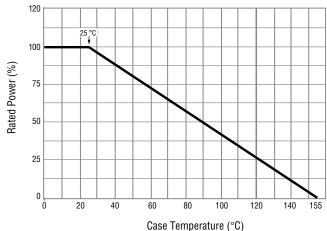
Parameter	Value(s)
Resistance	$0.02~\Omega$ to 130 K $\Omega$
(See Popular Resistance Values table)	
Power Rating @ 25 °C Case Temperature	20 W
Tolerance	±1 %**, ±5 %
TCR	
0.02 Ω <r<130.0k td="" ω<=""><td>±100 PPM/°C</td></r<130.0k>	±100 PPM/°C
Thermal Resistance - Rthi	6.5 °C/W
Inductance	0.1 μH maximum
Operating Voltage	√P*R with a maximum of 250 V
Dielectric Strength	2 KV AC
Insulation Resistance	10 GΩ
Operating Temperature	-55 °C to 155 °C

<sup>\*\*</sup> Available for most values. Check Popular Resistance Values table.

### **Reliability Characteristics**

Parameter	Specification	
Short Term Overload (2x Pr for R < 2 $\Omega$ ,	ΛR ±0.25 %	
1.6 x Pr for R ≥ 2 $\Omega$ , V < 1.5 x Operating Voltage)	ΔR ±0.25 %	
Load Life (1000 hours at rated power)	ΔR ±1.0 %	
Thermal Shock (-55 °C to 155 °C, 5 cycles)	ΔR ±0.5 %	
Resistance to Soldering Heat (10 seconds at	ΛR ±0.5 %	
270 °C)	ΔH ±0.5 /8	
Vibration (20 G 10-2000 Hz .06 " D.A.)	ΔR ±0.25 %	
Moisture Sensitivity Level	1	

### **Power Derating Curve**



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

### **Material Characteristics**

Resistor	Thick film
Substrate	Alumina (AL203)
Housing	Ероху
Pins	Tinned Copper (Sn/Cu)
Flammability	Conforms to UL-94V0

### **Popular Resistance Values**

Code Value         Resistance Value         Code Value         Resistance Value           R020 $0.02 \Omega^{***}$ 1000         100 Ω           R025 $0.025 \Omega^{***}$ 1200         120 Ω           R030 $0.033 \Omega^{***}$ 1500         150 Ω           R033 $0.033 \Omega^{***}$ 2000         200 Ω           R040 $0.04 \Omega^{***}$ 2500         250 Ω           R050 $0.05 \Omega^{***}$ 3000         300 Ω           R075 $0.075 \Omega^{***}$ 3300         330 Ω           R100 $0.1 \Omega$ 4000         400 Ω           R150 $0.15 \Omega$ 4700         470 Ω           R200 $0.2 \Omega$ 5000         500 Ω           R250 $0.25 \Omega$ 5600         560 Ω           R330 $0.33 \Omega$ 7500         750 Ω           R330 $0.33 \Omega$ 1501         1.5 ΚΩ           R400 $0.4 \Omega$ 1501         1.5 ΚΩ           R500 $0.5 \Omega$ 2001         2.0 ΚΩ           R750 $0.75 \Omega$ 2501         2.5 ΚΩ           1R50         1.5 Ω						
R025         0.025 $\Omega^{***}$ 1200         120 $\Omega$ R030         0.03 $\Omega^{***}$ 1500         150 $\Omega$ R033         0.033 $\Omega^{***}$ 2000         200 $\Omega$ R040         0.04 $\Omega^{****}$ 2500         250 $\Omega$ R050         0.05 $\Omega^{****}$ 3000         300 $\Omega$ R075         0.075 $\Omega^{****}$ 3300         330 $\Omega$ R100         0.1 $\Omega$ 4000         400 $\Omega$ R150         0.15 $\Omega$ 4700         470 $\Omega$ R200         0.2 $\Omega$ 5000         500 $\Omega$ R250         0.25 $\Omega$ 5600         560 $\Omega$ R300         0.3 $\Omega$ 7500         750 $\Omega$ R330         0.33 $\Omega$ 1001         1.0 K $\Omega$ R400         0.4 $\Omega$ 1501         1.5 K $\Omega$ R500         0.5 $\Omega$ 2001         2.0 K $\Omega$ R750         0.75 $\Omega$ 2501         2.5 K $\Omega$ 1R00         1 $\Omega$ 3001         3.0 K $\Omega$ 1R50         1.5 $\Omega$ 3301         3.3 K $\Omega$ 2R50         2.5 $\Omega$ <	Code		Code	Resistance Value		
R030         0.03 Ω***         1500         150 Ω           R033         0.033 Ω***         2000         200 Ω           R040         0.04 Ω***         2500         250 Ω           R050         0.05 Ω***         3000         300 Ω           R075         0.075 Ω***         3300         330 Ω           R100         0.1 Ω         4000         400 Ω           R150         0.15 Ω         4700         470 Ω           R200         0.2 Ω         5000         500 Ω           R250         0.25 Ω         5600         560 Ω           R300         0.3 Ω         7500         750 Ω           R330         0.33 Ω         1001         1.0 ΚΩ           R400         0.4 Ω         1501         1.5 ΚΩ           R500         0.5 Ω         2001         2.0 ΚΩ           R750         0.75 Ω         2501         2.5 ΚΩ           1R00         1 Ω         3001         3.0 ΚΩ           1R50         1.5 Ω         3301         3.3 ΚΩ           2R00         2 Ω         4001         4.0 ΚΩ           2R50         2.5 Ω         5001         5.0 ΚΩ           3R30         3.3 Ω </td <td>R020</td> <td></td> <td>1000</td> <td>100 Ω</td>	R020		1000	100 Ω		
R033         0.033 $\Omega^{***}$ 2000         200 $\Omega$ R040         0.04 $\Omega^{***}$ 2500         250 $\Omega$ R050         0.05 $\Omega^{***}$ 3000         300 $\Omega$ R075         0.075 $\Omega^{***}$ 3300         330 $\Omega$ R100         0.1 $\Omega$ 4000         400 $\Omega$ R150         0.15 $\Omega$ 4700         470 $\Omega$ R200         0.2 $\Omega$ 5000         500 $\Omega$ R250         0.25 $\Omega$ 5600         560 $\Omega$ R300         0.3 $\Omega$ 7500         750 $\Omega$ R330         0.33 $\Omega$ 1001         1.0 K $\Omega$ R400         0.4 $\Omega$ 1501         1.5 K $\Omega$ R500         0.5 $\Omega$ 2001         2.0 K $\Omega$ R750         0.75 $\Omega$ 2501         2.5 K $\Omega$ 1R00         1 $\Omega$ 3001         3.0 K $\Omega$ 1R50         1.5 $\Omega$ 3301         3.3 K $\Omega$ 2R00         2 $\Omega$ 4001         4.0 K $\Omega$ 2R50         2.5 $\Omega$ 5001         5.0 K $\Omega$ 3R30         3.3 $\Omega$ 1002	R025		1200	120 Ω		
R040 $0.04 \Omega^{***}$ 2500         250 Ω           R050 $0.05 \Omega^{***}$ 3000         300 Ω           R075 $0.075 \Omega^{***}$ 3300         330 Ω           R100 $0.1 \Omega$ 4000         400 Ω           R150 $0.15 \Omega$ 4700         470 Ω           R200 $0.2 \Omega$ 5000         500 Ω           R250 $0.25 \Omega$ 5600         560 Ω           R300 $0.3 \Omega$ 7500         750 Ω           R330 $0.33 \Omega$ 1001         1.0 ΚΩ           R400 $0.4 \Omega$ 1501         1.5 ΚΩ           R500 $0.5 \Omega$ 2001         2.0 ΚΩ           R750 $0.75 \Omega$ 2501         2.5 ΚΩ           1R00         1 Ω         3001         3.0 ΚΩ           1R50         1.5 Ω         3301         3.3 ΚΩ           2R00         2 Ω         4001         4.0 ΚΩ           2R50         2.5 Ω         5001         5.0 ΚΩ           3R30         3.3 Ω         1002         10 ΚΩ           4R00         4 Ω         1502         15 ΚΩ           5R00 <td>R030</td> <td></td> <td>1500</td> <td>150 Ω</td>	R030		1500	150 Ω		
R050 $0.05 \Omega^{***}$ 3000         300 Ω           R075 $0.075 \Omega^{***}$ 3300         330 Ω           R100 $0.1 \Omega$ 4000         400 Ω           R150 $0.15 \Omega$ 4700         470 Ω           R200 $0.2 \Omega$ 5000         500 Ω           R250 $0.25 \Omega$ 5600         560 Ω           R300 $0.3 \Omega$ 7500         750 Ω           R330 $0.33 \Omega$ 1001         1.0 ΚΩ           R400 $0.4 \Omega$ 1501         1.5 ΚΩ           R500 $0.5 \Omega$ 2001         2.0 ΚΩ           R750 $0.75 \Omega$ 2501         2.5 ΚΩ           1R00         1 Ω         3001         3.0 ΚΩ           1R50         1.5 Ω         3301         3.3 ΚΩ           2R00         2 Ω         4001         4.0 ΚΩ           2R50         2.5 Ω         5001         5.0 ΚΩ           3R30         3.3 Ω         1002         10 ΚΩ           4R00         4 Ω         1502         15 ΚΩ           5R00         5 Ω         2002         20 ΚΩ           7R50	R033		2000			
R075         0.075 $\Omega^{***}$ 3300         330 $\Omega$ R100         0.1 $\Omega$ 4000         400 $\Omega$ R150         0.15 $\Omega$ 4700         470 $\Omega$ R200         0.2 $\Omega$ 5000         500 $\Omega$ R250         0.25 $\Omega$ 5600         560 $\Omega$ R300         0.3 $\Omega$ 7500         750 $\Omega$ R330         0.33 $\Omega$ 1001         1.0 K $\Omega$ R400         0.4 $\Omega$ 1501         1.5 K $\Omega$ R500         0.5 $\Omega$ 2001         2.0 K $\Omega$ R750         0.75 $\Omega$ 2501         2.5 K $\Omega$ 1R00         1 $\Omega$ 3001         3.0 K $\Omega$ 1R50         1.5 $\Omega$ 3301         3.3 K $\Omega$ 2R00         2 $\Omega$ 4001         4.0 K $\Omega$ 2R50         2.5 $\Omega$ 5001         5.0 K $\Omega$ 3R30         3.3 $\Omega$ 1002         10 K $\Omega$ 4R00         4 $\Omega$ 1502         15 K $\Omega$ 3R30         3.3 $\Omega$ 1002         10 K $\Omega$ 4R00         4 $\Omega$ 1502         25 K $\Omega$ </td <td>R040</td> <td></td> <td>2500</td> <td>250 Ω</td>	R040		2500	250 Ω		
R100 $0.1 \Omega$ 4000         400 Ω           R150 $0.15 \Omega$ 4700         470 Ω           R200 $0.2 \Omega$ 5000         500 Ω           R250 $0.25 \Omega$ 5600         560 Ω           R300 $0.3 \Omega$ 7500         750 Ω           R330 $0.33 \Omega$ 1001 $1.0 \text{ K}\Omega$ R400 $0.4 \Omega$ 1501 $1.5 \text{ K}\Omega$ R500 $0.5 \Omega$ 2001 $2.0 \text{ K}\Omega$ R750 $0.75 \Omega$ 2501 $2.5 \text{ K}\Omega$ 1R00 $1 \Omega$ 3001 $3.0 \text{ K}\Omega$ 1R50 $1.5 \Omega$ 3301 $3.3 \text{ K}\Omega$ 2R00 $2 \Omega$ 4001 $4.0 \text{ K}\Omega$ 2R50 $2.5 \Omega$ 5001 $5.0 \text{ K}\Omega$ 3R00 $3 \Omega$ 7501 $7.5 \text{ K}\Omega$ 3R00 $5 \Omega$ 2002	R050		3000	300 Ω		
R150 $0.15 \Omega$ $4700$ $470 \Omega$ R200 $0.2 \Omega$ $5000$ $500 \Omega$ R250 $0.25 \Omega$ $5600$ $560 \Omega$ R300 $0.3 \Omega$ $7500$ $750 \Omega$ R330 $0.33 \Omega$ $1001$ $1.0 K\Omega$ R400 $0.4 \Omega$ $1501$ $1.5 K\Omega$ R500 $0.5 \Omega$ $2001$ $2.0 K\Omega$ R750 $0.75 \Omega$ $2501$ $2.5 K\Omega$ 1R00 $1 \Omega$ $3001$ $3.0 K\Omega$ 1R50 $1.5 \Omega$ $3301$ $3.3 K\Omega$ 2R00 $2 \Omega$ $4001$ $4.0 K\Omega$ 2R50 $2.5 \Omega$ $5001$ $5.0 K\Omega$ 3R00 $3 \Omega$ $7501$ $7.5 K\Omega$ 3R30 $3.3 \Omega$ $1002$ $10 K\Omega$ 4R00 $4 \Omega$ $1502$ $15 K\Omega$ 5R00 $5 \Omega$ $2002$ $20 K\Omega$ 7R50 $7.5 \Omega$ $2502$ $25 K\Omega$ 8R00 $8 \Omega$ $3002$	R075	0.075 Ω***	3300	330 Ω		
R200 $0.2 \Omega$ 5000         500 Ω           R250 $0.25 \Omega$ 5600         560 Ω           R300 $0.3 \Omega$ 7500         750 Ω           R330 $0.33 \Omega$ 1001 $1.0 \text{ K}\Omega$ R400 $0.4 \Omega$ 1501 $1.5 \text{ K}\Omega$ R500 $0.5 \Omega$ 2001 $2.0 \text{ K}\Omega$ R750 $0.75 \Omega$ 2501 $2.5 \text{ K}\Omega$ 1R00 $1 \Omega$ 3001 $3.0 \text{ K}\Omega$ 1R50 $1.5 \Omega$ 3301 $3.3 \text{ K}\Omega$ 2R00 $2 \Omega$ 4001 $4.0 \text{ K}\Omega$ 2R50 $2.5 \Omega$ 5001 $5.0 \text{ K}\Omega$ 3R00 $3 \Omega$ 7501 $7.5 \text{ K}\Omega$ 3R30 $3.3 \Omega$ 1002 $10 \text{ K}\Omega$ 4R00 $4 \Omega$ 1502 $15 \text{ K}\Omega$ 5R00 $5 \Omega$ 2002 $20 \text{ K}\Omega$ 7R50 $7.5 \Omega$ 2502 $25 \text{ K}\Omega$ 8R00 $8 \Omega$ 3002 $30 \text{ K}\Omega$ 12R0 $12 \Omega$ 4002	R100	0.1 Ω	4000	400 Ω		
R250 $0.25 \Omega$ 5600         560 Ω           R300 $0.3 \Omega$ 7500         750 Ω           R330 $0.33 \Omega$ 1001 $1.0 \text{ K}\Omega$ R400 $0.4 \Omega$ 1501 $1.5 \text{ K}\Omega$ R500 $0.5 \Omega$ 2001 $2.0 \text{ K}\Omega$ R750 $0.75 \Omega$ 2501 $2.5 \text{ K}\Omega$ 1R00 $1 \Omega$ 3001 $3.0 \text{ K}\Omega$ 1R50 $1.5 \Omega$ 3301 $3.3 \text{ K}\Omega$ 2R00 $2 \Omega$ 4001 $4.0 \text{ K}\Omega$ 2R50 $2.5 \Omega$ 5001 $5.0 \text{ K}\Omega$ 3R00 $3 \Omega$ 7501 $7.5 \text{ K}\Omega$ 3R30 $3.3 \Omega$ 1002 $10 \text{ K}\Omega$ 4R00 $4 \Omega$ 1502 $15 \text{ K}\Omega$ 5R00 $5 \Omega$ 2002 $20 \text{ K}\Omega$ 7R50 $7.5 \Omega$ 2502 $25 \text{ K}\Omega$ 8R00 $8 \Omega$ 3002 $30 \text{ K}\Omega$ 12R0 $10 \Omega$ 3302 $33 \text{ K}\Omega$ 12R0 $15 \Omega$ <td< td=""><td>R150</td><td>0.15 Ω</td><td>4700</td><td>470 Ω</td></td<>	R150	0.15 Ω	4700	470 Ω		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	R200	-	5000	500 Ω		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	R250	0.25 Ω	5600	560 Ω		
R400 $0.4 \Omega$ 1501 $1.5 K\Omega$ R500 $0.5 \Omega$ 2001 $2.0 K\Omega$ R750 $0.75 \Omega$ 2501 $2.5 K\Omega$ 1R00 $1 \Omega$ 3001 $3.0 K\Omega$ 1R50 $1.5 \Omega$ 3301 $3.3 K\Omega$ 2R00 $2 \Omega$ 4001 $4.0 K\Omega$ 2R50 $2.5 \Omega$ 5001 $5.0 K\Omega$ 3R00 $3 \Omega$ 7501 $7.5 K\Omega$ 3R30 $3.3 \Omega$ 1002 $10 K\Omega$ 4R00 $4 \Omega$ 1502 $15 K\Omega$ 5R00 $5 \Omega$ 2002 $20 K\Omega$ 7R50 $7.5 \Omega$ 2502 $25 K\Omega$ 8R00 $8 \Omega$ 3002 $30 K\Omega$ 10R0 $10 \Omega$ 3302 $33 K\Omega$ 12R0 $12 \Omega$ 4002 $40 K\Omega$ 15R0 $15 \Omega$ 4702 $47 K\Omega$ 20R0 $20 \Omega$ 5002 $50 K\Omega$ 25R0 $25 \Omega$ $5602$ $56 K\Omega$	R300	0.3 Ω	7500	750 Ω		
R500 $0.5 \Omega$ 2001 $2.0 \text{ K}\Omega$ R750 $0.75 \Omega$ 2501 $2.5 \text{ K}\Omega$ 1R00         1 $\Omega$ 3001 $3.0 \text{ K}\Omega$ 1R50 $1.5 \Omega$ 3301 $3.3 \text{ K}\Omega$ 2R00 $2 \Omega$ 4001 $4.0 \text{ K}\Omega$ 2R50 $2.5 \Omega$ 5001 $5.0 \text{ K}\Omega$ 3R00 $3 \Omega$ $7501$ $7.5 \text{ K}\Omega$ 3R30 $3.3 \Omega$ $1002$ $10 \text{ K}\Omega$ 4R00 $4 \Omega$ $1502$ $15 \text{ K}\Omega$ 5R00 $5 \Omega$ $2002$ $20 \text{ K}\Omega$ 7R50 $7.5 \Omega$ $2502$ $25 \text{ K}\Omega$ 8R00 $8 \Omega$ $3002$ $30 \text{ K}\Omega$ 10R0 $10 \Omega$ $3302$ $33 \text{ K}\Omega$ 12R0 $12 \Omega$ $4002$ $40 \text{ K}\Omega$ 15R0 $15 \Omega$ $4702$ $47 \text{ K}\Omega$ 20R0 $20 \Omega$ $5002$ $50 \text{ K}\Omega$ 25R0 $25 \Omega$ $5602$ $56 \text{ K}\Omega$ 30R0         <	R330	0.33 Ω	1001	1.0 KΩ		
R750 $0.75 \Omega$ 2501 $2.5 K\Omega$ 1R00         1 $\Omega$ 3001         3.0 K $\Omega$ 1R50         1.5 $\Omega$ 3301         3.3 K $\Omega$ 2R00         2 $\Omega$ 4001         4.0 K $\Omega$ 2R50         2.5 $\Omega$ 5001         5.0 K $\Omega$ 3R00         3 $\Omega$ 7501         7.5 K $\Omega$ 3R30         3.3 $\Omega$ 1002         10 K $\Omega$ 4R00         4 $\Omega$ 1502         15 K $\Omega$ 5R00         5 $\Omega$ 2002         20 K $\Omega$ 7R50         7.5 $\Omega$ 2502         25 K $\Omega$ 8R00         8 $\Omega$ 3002         30 K $\Omega$ 10R0         10 $\Omega$ 3302         33 K $\Omega$ 12R0         12 $\Omega$ 4002         40 K $\Omega$ 15R0         15 $\Omega$ 4702         47 K $\Omega$ 20R0         20 $\Omega$ 5002         50 K $\Omega$ 25R0         25 $\Omega$ 5602         56 K $\Omega$ 27R0         27 $\Omega$ 6802         68 K $\Omega$ 30R0         30 $\Omega$ 7502         75 K $\Omega$ <td< td=""><td>R400</td><td>0.4 Ω</td><td>1501</td><td>1.5 KΩ</td></td<>	R400	0.4 Ω	1501	1.5 KΩ		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	R500	0.5 Ω	2001	2.0 ΚΩ		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	R750	0.75 Ω	2501	2.5 ΚΩ		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1R00	1 Ω	3001	3.0 KΩ		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1R50	1.5 Ω	3301	3.3 KΩ		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2R00	2 Ω	4001	4.0 KΩ		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2R50	2.5 Ω	5001	5.0 KΩ		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3R00	3 Ω	7501	7.5 KΩ		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3R30	3.3 Ω	1002	10 KΩ		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4R00	4 Ω	1502	15 KΩ		
8R00         8 Ω         3002         30 ΚΩ           10R0         10 Ω         3302         33 ΚΩ           12R0         12 Ω         4002         40 ΚΩ           15R0         15 Ω         4702         47 ΚΩ           20R0         20 Ω         5002         50 ΚΩ           25R0         25 Ω         5602         56 ΚΩ           27R0         27 Ω         6802         68 ΚΩ           30R0         30 Ω         7502         75 ΚΩ           33R0         33 Ω         8202         82 ΚΩ           40R0         40 Ω         1003         100 ΚΩ           47R0         47 Ω         1153         115 ΚΩ           50R0         50 Ω         1203         120 ΚΩ           56R0         56 Ω         1253         125 ΚΩ	5R00	5 Ω	2002	20 ΚΩ		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	7R50	7.5 Ω	2502	25 ΚΩ		
12R0         12 Ω         4002         40 ΚΩ           15R0         15 Ω         4702         47 ΚΩ           20R0         20 Ω         5002         50 ΚΩ           25R0         25 Ω         5602         56 ΚΩ           27R0         27 Ω         6802         68 ΚΩ           30R0         30 Ω         7502         75 ΚΩ           33R0         33 Ω         8202         82 ΚΩ           40R0         40 Ω         1003         100 ΚΩ           47R0         47 Ω         1153         115 ΚΩ           50R0         50 Ω         1203         120 ΚΩ           56R0         56 Ω         1253         125 ΚΩ	8R00	8 Ω	3002	30 KΩ		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	10R0	10 Ω	3302	33 KΩ		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	12R0	12 Ω	4002	40 KΩ		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	15R0	15 Ω	4702	47 KΩ		
$\begin{array}{c ccccc} 27R0 & 27 & \Omega & 6802 & 68 & K\Omega \\ 30R0 & 30 & \Omega & 7502 & 75 & K\Omega \\ 33R0 & 33 & \Omega & 8202 & 82 & K\Omega \\ 40R0 & 40 & \Omega & 1003 & 100 & K\Omega \\ 47R0 & 47 & \Omega & 1153 & 115 & K\Omega \\ 50R0 & 50 & \Omega & 1203 & 120 & K\Omega \\ 56R0 & 56 & \Omega & 1253 & 125 & K\Omega \\ \end{array}$	20R0	20 Ω	5002	50 KΩ		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	25R0	25 Ω	5602	56 KΩ		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	27R0	27 Ω	6802	68 KΩ		
40R0     40 Ω     1003     100 ΚΩ       47R0     47 Ω     1153     115 ΚΩ       50R0     50 Ω     1203     120 ΚΩ       56R0     56 Ω     1253     125 ΚΩ	30R0	30 Ω	7502	75 KΩ		
47R0     47 Ω     1153     115 ΚΩ       50R0     50 Ω     1203     120 ΚΩ       56R0     56 Ω     1253     125 ΚΩ	33R0	33 Ω	8202	82 KΩ		
50R0         50 Ω         1203         120 ΚΩ           56R0         56 Ω         1253         125 ΚΩ	40R0	40 Ω	1003	100 ΚΩ		
56R0 56 Ω 1253 125 KΩ	47R0	47 Ω	1153	115 KΩ		
	50R0	50 Ω	1203	120 ΚΩ		
75R0 75 Ω 1303 130 ΚΩ	56R0	56 Ω	1253	125 KΩ		
	75R0	75 Ω	1303	130 ΚΩ		

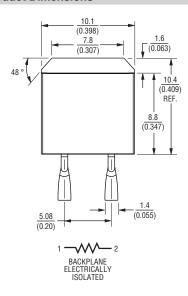
\*\*\* 5 % Tolerance

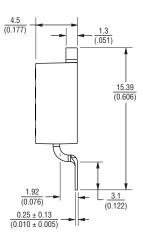
<sup>\*</sup>RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice.

# **PWR263S-20 Series Power Resistor**

# **BOURNS**®

#### **Product Dimensions**



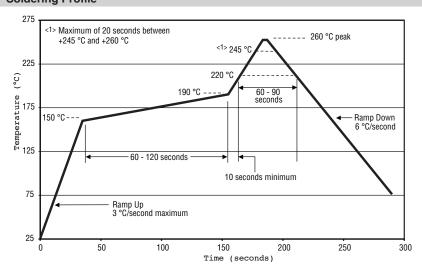


DIMENSIONS:  $\frac{MM}{(INCHES)}$ 

TOLERANCE:  $\frac{\pm 0.38}{(\pm 0.015)}$  UNLESS OTHERWISE NOTED

LEAD <u>0.102</u> MAX AT MOUNTING COPLANARITY: (0.004) SURFACE

### **Soldering Profile**



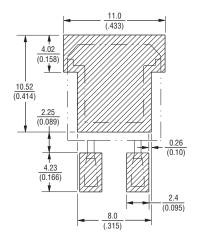
Power dissipation is 2.8 W at an ambient temperature of 25  $^{\circ}$ C when mounted on a double-sided copper board using FR4 standard, 70  $\mu$ m of copper, 39 x 30 x 1.6 mm.

#### Specifications are subject to change without notice.

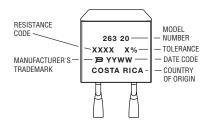
Users should verify actual device performance in their specific applications.

The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at <a href="https://www.bourns.com/docs/legal/disclaimer.pdf">www.bourns.com/docs/legal/disclaimer.pdf</a>.

#### **Recommended Pad Layout**

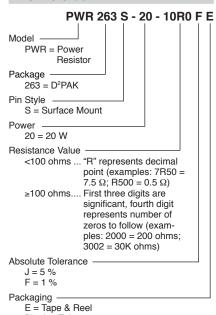


#### **Typical Part Marking**



#### **How to Order**

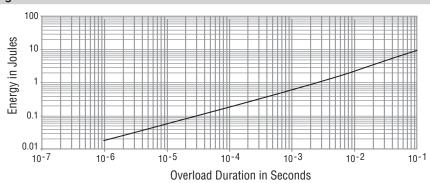
Blank = Tubes



# **PWR263S-20 Series Power Resistor**

# **BOURNS**®

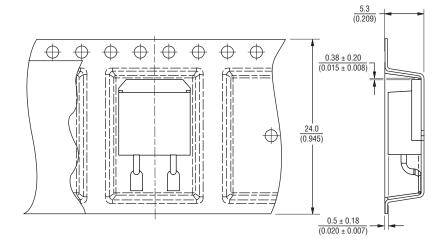
#### **Pulse Power Rating**



The energy absorbed by the resistor expressed in Joules can be calculated by multiplying the peak power of the pulse in watts times the length of the pulse in seconds.

The energy should not exceed the limits shown in the graph. The overload voltage should not exceed 1.5 times the maximum operating voltage.

#### **Packaging Specifications**



DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$ DLERANCE:  $\frac{\pm 0.38}{(\pm 0.015)}$  UNLESS OTHERWISE NOTED

# **BOURNS**®

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com

EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

www.bourns.com

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