Data Sheet No.: E16016 Version: V0 Date: 2023/4/27



PWWR

Silicone Cement Coating Leaded High Power Wirewound Resistor

Resistance

0.24Ω-20ΚΩ

Tolerance

+1%

TCR

+100ppm/K

Rated Power

16W



Precision Instrumentation

Semiconductor Testing Equipment

Medical Equipment

Capacitor Charging & Discharging

Better Solution for Sustainable High End Manufacturing





Wide Operating Temperature Range High Reliability, Strong Overload Capability



Introduction

PWWR series adopts two different diameter specifications of alumina ceramic cores, providing higher rated power than traditional axial wirewound through-hole resistor. High quality winding wire combined with specialized coating materials and processes enables PWWR to operate at higher temperature and have greater overload capacity.

The general axial through-hole wirewound resistor operates under rated power of up to 10W and maximum operating temperature of $+270\,^{\circ}$ C. PWWR series effectively improves the rated power and overload capacity by increasing the length and diameter of the ceramic core, while using high-quality resistive wire and insulation coating. At an ambient temperature of $+70\,^{\circ}$ C, the rated power is 13.5W and 16W, respectively, and the surface of the resistor can withstand high temperatures up to $+350\,^{\circ}$ C and $+370\,^{\circ}$ C.





Electrical Parameters

Size	Rated Power (+70°C)	Operating Temperature	E-Series Value	TCR ppm/K	Resistance Ω	Tolerance %
PWWR0013	13.5W	-55°C~+350°C	E24	+100	0.24≤R≤20K	$\pm 1, \pm 2, \pm 5, \pm 10$
PWWR0016	16W	-55°C~+370°C	E24	+100	0.33≤R≤20K	±1, ±2, ±5, ±10

Dimensions & Packaging

Unit:mm

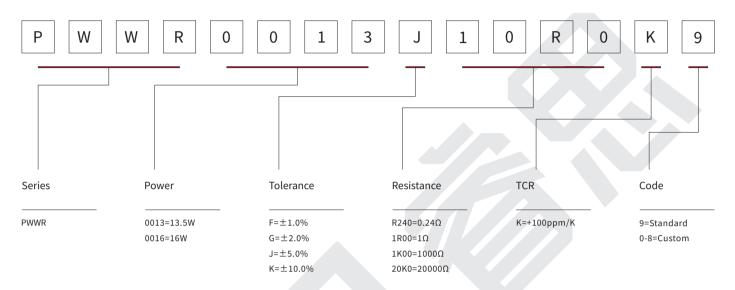


Size	L	D	d	F	Packaging	Quantity Per Bulk	Net Weight
PWWR0013	49.5±0.5	9.5±0.5	0.8±0.03	30.0+3.0	Bulk	50pcs	6.5g
PWWR0016	51.5±0.5	11.5±0.5	1.0±0.03	30.0+3.0	Bulk	30pcs	13g



Part Number Information

Example: PWWR0013J10R0K9 (PWWR 0013 $\pm 5\%$ 10 Ω +100ppm/K Standard)



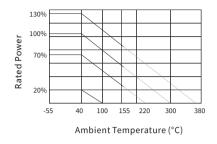
For more options of resistance, tolerance and TCR, please contact us.

Performance

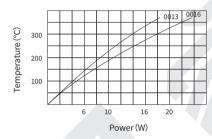
Test	Test Method	Standards	Test Limits
Moisture Resistance	40±2°C.90~95%RH for 500hours	GB/T5729 4.24	$\Delta R\!\leqslant\!\pm\;(3\%R\!+\!0.05\Omega)$ No mechanical damage. Clear marking
Load Life	100% rated power. Load 90 min/ON 30 min/OFF. 500hours	GB/T5729 4.25.2	$\Delta R \leq \pm (5\% R \pm 0.05\Omega)$ No mechanical damage. Clear marking
Short Time Overload	5 times rated power, 5s	GB/T5729 4.14	$\Delta R \leq \pm (2\% R + 0.05\Omega)$ No mechanical damage
Vibration	10~55Hz. 1min/cycle. 1.5mm wide in the three directions. Keeping 2 hours in each direction	GB/T5729 4.22	ΔR≤± (1%R+0.05Ω) No mechanical damage
Resistance to Solder Heat	350°C for 10s (Tin Plating)	GB/T5729 4.18	ΔR≤± (1%R+0.05Ω) No mechanical damage
Solderability	275°C for 5s (Tin Plating)	GB/T5729 4.17	90% coverage min.
Terminal Strength	Axial force 20N for 10s	GB/T5729 4.16	Lead wire no breaking or no loosening of termination
Body Strength	Vertical force 40N for 30s	GB/T5729 4.15	No mechanical damage



Derating Curve



Overtemperature Curve



Marking

The first line (four digits) represents brand.

The second line (fifteen digits) represents part number.

The third line (four digits) represents date code.

Illustration



RESI (Brand), PWWR0013F1R00K9 (Part Number), 2316 (Date Code. Week 16 of 2023)





Popular Part Numbers

Part Number	Power	Tolerance	Resistance	TCR
PWWR0013FR500K9	13.5W	±1%	0.5Ω	+100ppm/K
PWWR0013F1R00K9	13.5W	±1%	1Ω	+100ppm/K
PWWR0013F2R00K9	13.5W	±1%	2Ω	+100ppm/K
PWWR0013F5R00K9	13.5W	±1%	5Ω	+100ppm/K
PWWR0013F10R0K9	13.5W	±1%	10Ω	+100ppm/K
PWWR0013F20R0K9	13.5W	±1%	20Ω	+100ppm/K
PWWR0013F50R0K9	13.5W	±1%	50Ω	+100ppm/K
PWWR0013F100RK9	13.5W	±1%	100Ω	+100ppm/K
PWWR0013F1K00K9	13.5W	±1%	1ΚΩ	+100ppm/K
PWWR0013F2R20K9	13.5W	±1%	2.2Ω	+100ppm/K
PWWR0013F2R70K9	13.5W	±1%	2.7Ω	+100ppm/K
PWWR0013F3R00K9	13.5W	±1%	3Ω	+100ppm/K
PWWR0013F3R30K9	13.5W	±1%	3.3Ω	+100ppm/K
PWWR0013F4R00K9	13.5W	±1%	4Ω	+100ppm/K
PWWR0013F4R70K9	13.5W	±1%	4.7Ω	+100ppm/K
PWWR0013F5R60K9	13.5W	±1%	5.6Ω	+100ppm/K
PWWR0013F7R50K9	13.5W	±1%	7.5Ω	+100ppm/K
PWWR0013F15R0K9	13.5W	±1%	15Ω	+100ppm/K
PWWR0013F18R0K9	13.5W	±1%	18Ω	+100ppm/K
PWWR0013F27R0K9	13.5W	±1%	27Ω	+100ppm/K
PWWR0013F30R0K9	13.5W	±1%	30Ω	+100ppm/K
PWWR0013F33R0K9	13.5W	±1%	33Ω	+100ppm/K
PWWR0013F47R0K9	13.5W	±1%	47Ω	+100ppm/K
PWWR0013F75R0K9	13.5W	±1%	75Ω	+100ppm/K
PWWR0013F110RK9	13.5W	±1%	110Ω	+100ppm/K
PWWR0013F120RK9	13.5W	±1%	120Ω	+100ppm/K
PWWR0013F150RK9	13.5W	±1%	150Ω	+100ppm/K
PWWR0013F180RK9	13.5W	±1%	180Ω	+100ppm/K
PWWR0013F200RK9	13.5W	±1%	200Ω	+100ppm/K
PWWR0013F250RK9	13.5W	±1%	250Ω	+100ppm/K
PWWR0013F270RK9	13.5W	±1%	270Ω	+100ppm/K
PWWR0013F300RK9	13.5W	±1%	300Ω	+100ppm/K
PWWR0013F330RK9	13.5W	±1%	330Ω	+100ppm/K
PWWR0013F470RK9	13.5W	±1%	470Ω	+100ppm/K
PWWR0013F750RK9	13.5W	±1%	750Ω	+100ppm/K
PWWR0013F1K10K9	13.5W	±1%	1.1ΚΩ	+100ppm/K
PWWR0013F1K20K9	13.5W	±1%	1.2ΚΩ	+100ppm/K
PWWR0013F1K50K9	13.5W	±1%	1.5ΚΩ	+100ppm/K
PWWR0013F1K80K9	13.5W	±1%	1.8ΚΩ	+100ppm/K
PWWR0013F2K00K9	13.5W	±1%	2ΚΩ	+100ppm/K
PWWR0013F2K70K9	13.5W	±1%	2.7ΚΩ	+100ppm/K
PWWR0013F3K00K9	13.5W	±1%	3ΚΩ	+100ppm/K
PWWR0013F3K30K9	13.5W	±1%	3.3ΚΩ	+100ppm/K
PWWR0013F4K70K9	13.5W	±1%	4.7ΚΩ	+100ppm/K
PWWR0013F5K00K9	13.5W	±1%	5ΚΩ	+100ppm/K
PWWR0013F10K0K9	13.5W	±1%	10ΚΩ	+100ppm/K
PWWR0013F20K0K9	13.5W	±1%	20ΚΩ	+100ppm/K





Popular Part Numbers

Pow/Mobile/Fisions	Part Number	Power	Tolerance	Resistance	TCR
PWMPRODISF2RONCS	PWWR0016FR500K9	16W	±1%	0.5Ω	+100ppm/K
PWWROD1675R00K9	PWWR0016F1R00K9	16W	±1%	1Ω	+100ppm/K
PWWRODIEF1880KS 16W ±1% 20G +100ppm/K 100pm/K 100ppm/K 100pm/K 100pm/K 100pm/K 100pm/K 100pm/K 15W ±1% 20G +100pm/K 100pm/K 15W ±1% 50G +100pm/K 100pm/K 15W ±1% 50G +100pm/K 100pm/K 15W ±1% 50G +100pm/K 100pm/K 100pm/K 15W ±1% 100G +100pm/K 100pm/K 100pm/K 100pm/K 15W ±1% 100G +100pm/K 100pm/K	PWWR0016F2R00K9	16W	±1%	2Ω	+100ppm/K
PWWROOLEF28ROKS	PWWR0016F5R00K9	16W	±1%	5Ω	+100ppm/K
PWWR0016750R0K9 16W ±1% 50Ω ±100pm/K PWWR00167500R09 16W ±1% 100Ω ±100pm/K PWWR001677620R9 16W ±1% 1KO ±100pm/K PWWR001677820R9 16W ±1% 2.2Ω ±100ppm/K PWWR00167820R9 16W ±1% 30 ±100ppm/K PWWR00167830R09 16W ±1% 30 ±100ppm/K PWWR00167830R09 16W ±1% 3.3Q ±100ppm/K PWWR00167840R09 16W ±1% 40 ±100ppm/K PWWR00167840R09 16W ±1% 40 ±100ppm/K PWWR00167840R09 16W ±1% 5.6Q ±100ppm/K PWWR001678780R9 16W ±1% 5.6Q ±100ppm/K PWWR001678780R9 16W ±1% 5.6Q ±100ppm/K PWWR001678780R9 16W ±1% 3.6Q ±100ppm/K PWWR0016780R9 16W ±1% 30 ±100ppm/K PWWR00167780R9 16W <td>PWWR0016F10R0K9</td> <td>16W</td> <td>±1%</td> <td>10Ω</td> <td>+100ppm/K</td>	PWWR0016F10R0K9	16W	±1%	10Ω	+100ppm/K
PWWR0016F100RN9 16W ±1% 100Q ±108pm/K PWWR0016F1K00RN9 16W ±1% 1KQ ±100ppm/K PWWR0016F2R20R99 16W ±1% 2.2Q ±100ppm/K PWWR0016F2R20R99 16W ±1% 2.2Q ±100ppm/K PWWR0016F3R00R9 16W ±1% 3.Q ±100ppm/K PWWR0016F3R00R9 16W ±1% 3.Q ±100ppm/K PWWR0016F4R00R9 16W ±1% 4.Q ±100ppm/K PWWR0016F4R00R9 16W ±1% 4.Q ±100ppm/K PWWR0016F3R00R9 16W ±1% 4.Q 4.100ppm/K PWWR0016F3R00R9 16W ±1% 4.R 4.0 ±100ppm/K PWWR0016F3R00R9 16W ±1% 4.R 4.0 ±100ppm/K PWWR0016F3R00R9 16W ±1% 5.D ±100ppm/K PWWR0016F3R00R9 16W ±1% 3.0 ±100ppm/K PWWR0016F3R00R9 16W ±1% 3.0 ±100ppm/K <tr< td=""><td>PWWR0016F20R0K9</td><td>16W</td><td>±1%</td><td>20Ω</td><td>+100ppm/K</td></tr<>	PWWR0016F20R0K9	16W	±1%	20Ω	+100ppm/K
PWMR0016F1K00KO 16W ±1% 1KQ ±100ppm/k PWMR0016F2R0K9S 16W ±1% 2.2G ±100ppm/k PWMR0016F3R0K9S 16W ±1% 2.7G ±100ppm/k PWMR0016F3R0K9S 16W ±1% 3G ±100ppm/k PWMR0016F3R0K9S 16W ±1% 3.3G ±100ppm/k PWMR0016F3R0K9S 16W ±1% 3.3G ±100ppm/k PWMR0016F3R0K9S 16W ±1% 5.6G ±100ppm/k PWMR0016F3R0K9S 16W ±1% 5.6G ±100ppm/k PWMR0016F3R0K9S 16W ±1% 5.6G ±100ppm/k PWMR0016F3R0K9S 16W ±1% 150 ±100ppm/k PWMR0016F3R0K9S 16W ±1% 150 ±100ppm/k PWMR0016F3R0K9S 16W ±1% 30 ±100ppm/k PWMR0016F3R0K9S 16W ±1% 30 ±100ppm/k PWMR0016F3R0K9S 16W ±1% 30 ±100ppm/k PWMR0016F3R0K9S <t< td=""><td>PWWR0016F50R0K9</td><td>16W</td><td>±1%</td><td>50Ω</td><td>+100ppm/K</td></t<>	PWWR0016F50R0K9	16W	±1%	50Ω	+100ppm/K
PWWR0016752R0K9	PWWR0016F100RK9	16W	±1%	100Ω	+100ppm/K
PWWR001673R70K9	PWWR0016F1K00K9	16W	±1%	1ΚΩ	+100ppm/K
PWWR001678800K9	PWWR0016F2R20K9	16W	±1%	2.2Ω	+100ppm/K
PWWR0016F3R30K9 16W ±1% 3.30 ±100ppm/K PWWR0016F4R00K9 16W ±1% 4.70 ±100ppm/K PWWR0016F3R0K9 16W ±1% 4.70 ±100ppm/K PWWR0016F3R60K9 16W ±1% 5.60 ±100ppm/K PWWR0016F3R50K9 16W ±1% 5.60 ±100ppm/K PWWR0016F3R50K9 16W ±1% 150 ±100ppm/K PWWR0016F1R80K9 16W ±1% 180 ±100ppm/K PWWR0016F3R80K9 16W ±1% 300 ±100ppm/K PWWR0016F3R80K9 16W ±1% 300 ±100ppm/K PWWR0016F3R30K9 16W ±1% 330 ±100ppm/K PWWR0016F3R30K9 16W ±1% 470 ±100ppm/K PWWR0016F3R30K9 16W ±1% 470 ±100ppm/K PWWR0016F3R30K9 16W ±1% 470 ±100ppm/K PWWR0016F3R30K9 16W ±1% 150 100ppm/K PWWR0016F3R30K9 <th< td=""><td>PWWR0016F2R70K9</td><td>16W</td><td>±1%</td><td>2.7Ω</td><td>+100ppm/K</td></th<>	PWWR0016F2R70K9	16W	±1%	2.7Ω	+100ppm/K
PWWR0016F4R00K8 16W ±1% 4Ω ±100ppm/K PWWR0016F4R70K8 16W ±1% 4.70 ±100ppm/K PWWR0016F3R50K9 16W ±1% 5.60 ±100ppm/K PWWR0016F7R50K9 16W ±1% 7.50 ±100ppm/K PWWR0016F1R50K9 16W ±1% 150 ±100ppm/K PWWR0016F1R50K9 16W ±1% 180 ±100ppm/K PWWR0016F1R50K9 16W ±1% 300 ±100ppm/K PWWR0016F3R0K9 16W ±1% 370 ±100ppm/K PWWR0016F3R0K9 16W ±1% 100 ±100ppm/K PWWR0016F3B0K9 16W ±1% 100 ±100ppm/K PWWR0016F3D0K9 16W ±1% 100 ±100ppm/K PWWR0016F3D0K9 16W <td>PWWR0016F3R00K9</td> <td>16W</td> <td>±1%</td> <td>3Ω</td> <td>+100ppm/K</td>	PWWR0016F3R00K9	16W	±1%	3Ω	+100ppm/K
PWWR001654R70K9 16W ±1% 5,6G 100ppm/K PWWR0016578R0K9 16W ±1% 5,6G 1100ppm/K PWWR0016578R0K9 16W ±1% 7,5G 1100ppm/K PWWR0016518R0K9 16W ±1% 15G 1100ppm/K PWWR0016518R0K9 16W ±1% 18G 1100ppm/K PWWR0016578R0K9 16W ±1% 30G 1100ppm/K PWWR0016578R0K9 16W ±1% 30G 1100ppm/K PWWR0016578R0K9 16W ±1% 33G 1100ppm/K PWWR0016578R0K9 16W ±1% 33G 1100ppm/K PWWR0016578R0K9 16W ±1% 37G 1100ppm/K PWWR0016578R0K9 16W ±1% 37G 1100ppm/K PWWR0016578R0K9 16W ±1% 75G 1100ppm/K PWWR0016578R0K9 16W ±1% 75G 1100ppm/K PWWR001675R0K9 16W ±1% 75G 1100 1100ppm/K PWWR001675R0K9 16W ±1% 15G 110G 1100ppm/K PWWR001675R0K9 16W ±1% 15G 110G 1100ppm/K PWWR0016578R0K9 16W ±1% 15G 110G 1100ppm/K PWWR0016578R0K9 16W ±1% 15G 12G 110G 1100ppm/K PWWR0016578R0K9 16W ±1% 15G 12G 1100 1100ppm/K PWWR0016578R0K9 16W ±1% 15G 12G 1100 1100ppm/K PWWR0016578R0K9 16W ±1% 15G 12G 1100 1100ppm/K PWWR0016578R0K9 16W ±1% 12G 12G 1100ppm/K PWWR0016578R0K9 16W ±1% 17G 1100ppm/K	PWWR0016F3R30K9	16W	±1%	3.3Ω	+100ppm/K
PWWR0016F3R0K9 16W ±1% 7.50 +100ppm/K PWWR0016F1R0K9 16W ±1% 7.50 +100ppm/K PWWR0016F1R0K9 16W ±1% 15Ω +100ppm/K PWWR0016F1R0K9 16W ±1% 16Ω +100ppm/K PWWR0016F1R0K9 16W ±1% 16Ω +100ppm/K PWWR0016F3R0K9 16W ±1% 30Ω +100ppm/K PWWR0016F3R0K9 16W ±1% 30Ω +100ppm/K PWWR0016F3R0K9 16W ±1% 33Ω +100ppm/K PWWR0016F3R0K9 16W ±1% 33Ω +100ppm/K PWWR0016F3R0K9 16W ±1% 47Ω +100ppm/K PWWR0016F3R0K9 16W ±1% 75Ω +100ppm/K PWWR0016F3R0K9 16W ±1% 75Ω +100ppm/K PWWR0016F3R0K9 16W ±1% 75Ω +100ppm/K PWWR0016F3R0K9 16W ±1% 11Ω +100ppm/K PWWR0016F3R0K9 16W ±1% 120Ω +100ppm/K PWWR0016F3R0K9 16W ±1% 250Ω +100ppm/K PWWR0016F3R0K9 16W ±1% 300Ω +100ppm/K PWWR0016F3R0K9 16W ±1% 15% 300Ω +100ppm/K PWWR0016F3R0K9 16W ±1% 15% 300Ω +100ppm/K PWWR0016F3R0K9 16W ±1% 300Ω +100ppm/K +100ppm/K PWWR0016F3R0K9 16W ±1% 300Ω +100ppm/K +100ppm/	PWWR0016F4R00K9	16W	±1%	4Ω	+100ppm/K
PWWR001657R50K9 16W ±196 7.5Ω ±100ppm/K PWWR001651S0K9 16W ±196 15Q ±100ppm/K PWWR001651SR0K9 16W ±196 18Q ±100ppm/K PWWR001651R0K9 16W ±196 27Q ±100ppm/K PWWR001653R0K9 16W ±196 30Q ±100ppm/K PWWR001653R0K9 16W ±196 33Q ±100ppm/K PWWR001653R0K9 16W ±196 33Q ±100ppm/K PWWR0016573R0K9 16W ±196 47Q ±100ppm/K PWWR0016572R0K9 16W ±196 110Q ±100ppm/K PWWR0016512DRW 16W ±196 12QQ ±100ppm/K PWWR0016512DRW9 16W ±196 150Q ±100ppm/K PWWR0016512DRW9 16W ±196 20QQ ±100ppm/K PWWR0016512DRW9 16W ±196 20QQ ±100ppm/K PWWR001652DRW9 16W ±196 30QQ ±100ppm/K PWWR001652DRM9	PWWR0016F4R70K9	16W	±1%	4.7Ω	+100ppm/K
PWWR0016F1SR0K9 16W ±196 15Ω ±100ppm/K PWWR0016F2RR0K9 16W ±196 18Ω ±100ppm/K PWWR0016F2R70K9 16W ±196 27Ω ±100ppm/K PWWR0016F3R0K9 16W ±196 30Ω ±100ppm/K PWWR0016F3R0K9 16W ±196 33Ω ±100ppm/K PWWR0016F3R0K9 16W ±196 47Ω ±100ppm/K PWWR0016F3R0K9 16W ±196 75Ω ±100ppm/K PWWR0016F120RK9 16W ±196 110Ω ±100ppm/K PWWR0016F120RK9 16W ±196 120Ω ±100ppm/K PWWR0016F120RK9 16W ±196 150Ω ±100ppm/K PWWR0016F120RK9 16W ±196 150Ω ±100ppm/K PWWR0016F120RK9 16W ±196 200Ω ±100ppm/K PWWR0016F250RK9 16W ±196 200Ω ±100ppm/K PWWR0016F250RK9 16W ±196 270Ω ±100ppm/K PWWR0016F250RK9 </td <td>PWWR0016F5R60K9</td> <td>16W</td> <td>±1%</td> <td>5.6Ω</td> <td>+100ppm/K</td>	PWWR0016F5R60K9	16W	±1%	5.6Ω	+100ppm/K
PWWR0016F18R0K9 16W ±196 2TΩ ±100ppm/K PWWR0016F27R0K9 16W ±196 2TΩ ±100ppm/K PWWR0016F3R0K9 16W ±196 30Ω ±100ppm/K PWWR0016F33R0K9 16W ±196 33Ω ±100ppm/K PWWR0016F47R0K9 16W ±196 47Ω ±100ppm/K PWWR0016F75R0K9 16W ±196 110Ω ±100ppm/K PWWR0016F110RK9 16W ±196 110Ω ±100ppm/K PWWR0016F120RK9 16W ±196 120Ω ±100ppm/K PWWR0016F150RK9 16W ±196 150Ω ±100ppm/K PWWR0016F150RK9 16W ±196 150Ω ±100ppm/K PWWR0016F150RK9 16W ±196 200Ω ±100ppm/K PWWR0016F20RK9 16W ±196 200Ω ±100ppm/K PWWR0016F20RK9 16W ±196 250Ω ±100ppm/K PWWR0016F20RK9 16W ±196 300Ω ±100ppm/K PWWR0016F250RK9	PWWR0016F7R50K9	16W	±1%	7.5Ω	+100ppm/K
PWWR0016F27R0K9 16W ±196 27Ω ±100ppm/K PWWR0016F30R0K9 16W ±196 30Ω ±100ppm/K PWWR0016F3R0K9 16W ±196 33Ω ±100ppm/K PWWR0016F47R0K9 16W ±196 47Ω ±100ppm/K PWWR0016F15R0K9 16W ±196 110Ω ±100ppm/K PWWR0016F110RK9 16W ±196 120Ω ±100ppm/K PWWR0016F150RK9 16W ±196 120Ω ±100ppm/K PWWR0016F150RK9 16W ±196 120Ω ±100ppm/K PWWR0016F150RK9 16W ±196 120Ω ±100ppm/K PWWR0016F20RK9 16W ±196 20ΩΩ ±100ppm/K PWWR0016F20RK9 16W ±196 250Ω ±100ppm/K PWWR0016F20RK9 16W ±196 270Ω ±100ppm/K PWWR0016F20RK9 16W ±196 300Ω ±100ppm/K PWWR0016F30RK9 16W ±196 470Ω ±100ppm/K PWWR0016F30RK9 </td <td>PWWR0016F15R0K9</td> <td>16W</td> <td>±1%</td> <td>15Ω</td> <td>+100ppm/K</td>	PWWR0016F15R0K9	16W	±1%	15Ω	+100ppm/K
PWWR0016F30R0K9 16W ±1% 30Ω ±100ppm/K PWWR0016F33R0K9 16W ±1% 33Ω ±100ppm/K PWWR0016F3R0K9 16W ±1% 47Ω ±100ppm/K PWWR0016F3F8R0K9 16W ±1% 75Ω ±100ppm/K PWWR0016F110RK9 16W ±1% 110Ω ±100ppm/K PWWR0016F120RK9 16W ±1% 120Ω ±100ppm/K PWWR0016F120RK9 16W ±1% 180Ω ±100ppm/K PWWR0016F120RK9 16W ±1% 180Ω ±100ppm/K PWWR0016F20RK9 16W ±1% 180Ω ±100ppm/K PWWR0016F20RK9 16W ±1% 200Ω ±100ppm/K PWWR0016F270RK9 16W ±1% 250Ω ±100ppm/K PWWR0016F270RK9 16W ±1% 300Ω ±100ppm/K PWWR0016F300RK9 16W ±1% 300Ω ±100ppm/K PWWR0016F300RK9 16W ±1% 300Ω ±100ppm/K PWWR0016F300RK9	PWWR0016F18R0K9	16W	±1%	18Ω	+100ppm/K
PWWR0016F33R0K9 16W ±1% 33Ω ±100ppm/K PWWR0016F47R0K9 16W ±1% 47Ω ±100ppm/K PWWR0016F13R0K9 16W ±1% 75Ω ±100ppm/K PWWR0016F110RK9 16W ±1% 110Ω ±100ppm/K PWWR0016F120RK9 16W ±1% 120Ω ±100ppm/K PWWR0016F150RK9 16W ±1% 150Ω ±100ppm/K PWWR0016F150RK9 16W ±1% 180Ω ±100ppm/K PWWR0016F250RK9 16W ±1% 200Ω ±100ppm/K PWWR0016F250RK9 16W ±1% 250Ω ±100ppm/K PWWR0016F250RK9 16W ±1% 250Ω ±100ppm/K PWWR0016F250RK9 16W ±1% 270Ω ±100ppm/K PWWR0016F250RK9 16W ±1% 300Ω ±100ppm/K PWWR0016F350RK9 16W ±1% 330Ω ±100ppm/K PWWR0016F350RK9 16W ±1% 470Ω ±100ppm/K PWWR0016F350K9	PWWR0016F27R0K9	16W	±1%	27Ω	+100ppm/K
PWWR0016F47R0K9 16W ±1% 47Ω ±100ppm/K PWWR0016F15R0K9 16W ±1% 75Ω ±100ppm/K PWWR0016F110RK9 16W ±1% 110Ω ±100ppm/K PWWR0016F120RK9 16W ±1% 120Ω ±100ppm/K PWWR0016F150RK9 16W ±1% 150Ω ±100ppm/K PWWR0016F30RK9 16W ±1% 180Ω ±100ppm/K PWWR0016F20RK9 16W ±1% 200Ω ±100ppm/K PWWR0016F20RK9 16W ±1% 250Ω ±100ppm/K PWWR0016F20RK9 16W ±1% 250Ω ±100ppm/K PWWR0016F20RK9 16W ±1% 250Ω ±100ppm/K PWWR0016F30RK9 16W ±1% 300Ω ±100ppm/K PWWR0016F330RK9 16W ±1% 330Ω ±100ppm/K PWWR0016F330RK9 16W ±1% 470Ω ±100ppm/K PWWR0016F30RK9 16W ±1% 470Ω ±100ppm/K PWWR0016F1K0K9 <	PWWR0016F30R0K9	16W	±1%	30Ω	+100ppm/K
PWWR0016F75R0K9 16W ±1% 75Ω ±100ppm/k PWWR0016F110RK9 16W ±1% 110Ω ±100ppm/k PWWR0016F120RK9 16W ±1% 120Ω ±100ppm/k PWWR0016F120RK9 16W ±1% 150Ω ±100ppm/k PWWR0016F120RK9 16W ±1% 180Ω ±100ppm/k PWWR0016F200RK9 16W ±1% 200Ω ±100ppm/k PWWR0016F20RK9 16W ±1% 250Ω ±100ppm/k PWWR0016F20RK9 16W ±1% 270Ω ±100ppm/k PWWR0016F20RK9 16W ±1% 270Ω ±100ppm/k PWWR0016F20RK9 16W ±1% 300Ω ±100ppm/k PWWR0016F20RK9 16W ±1% 300Ω ±100ppm/k PWWR0016F30RK9 16W ±1% 300Ω ±100ppm/k PWWR0016F330RK9 16W ±1% 330Ω ±100ppm/k PWWR0016F30RK9 16W ±1% 750Ω ±100ppm/k PWWR0016F1K20K9	PWWR0016F33R0K9	16W	±1%	33Ω	+100ppm/K
PWWR0016F110RK9 16W ±1% 110Ω ±100ppm/k PWWR0016F120RK9 16W ±1% 120Ω ±100ppm/k PWWR0016F150RK9 16W ±1% 150Ω ±100ppm/k PWWR0016F180RK9 16W ±1% 180Ω ±100ppm/k PWWR0016F200RK9 16W ±1% 200Ω ±100ppm/k PWWR0016F250RK9 16W ±1% 250Ω ±100ppm/k PWWR0016F270RK9 16W ±1% 270Ω ±100ppm/k PWWR0016F300RK9 16W ±1% 300Ω ±100ppm/k PWWR0016F330RK9 16W ±1% 330Ω ±100ppm/k PWWR0016F330RK9 16W ±1% 330Ω ±100ppm/k PWWR0016F30RK9 16W ±1% 470Ω ±100ppm/k PWWR0016F30RK9 16W ±1% 750Ω ±100ppm/k PWWR0016F1K10K9 16W ±1% 1.1KΩ ±100ppm/k PWWR0016F1K20K9 16W ±1% 1.2KΩ ±100ppm/k PWWR0016F1K30K9	PWWR0016F47R0K9	16W	±1%	47Ω	+100ppm/K
PWWR0016F120RK9 16W ±1% 120Ω ±100ppm/K PWWR0016F150RK9 16W ±1% 150Ω ±100ppm/K PWWR0016F180RK9 16W ±1% 180Ω ±100ppm/K PWWR0016F200RK9 16W ±1% 200Ω ±100ppm/K PWWR0016F270RK9 16W ±1% 250Ω ±100ppm/K PWWR0016F270RK9 16W ±1% 270Ω ±100ppm/K PWWR0016F300RK9 16W ±1% 300Ω ±100ppm/K PWWR0016F300RK9 16W ±1% 330Ω ±100ppm/K PWWR0016F330RK9 16W ±1% 330Ω ±100ppm/K PWWR0016F300RK9 16W ±1% 330Ω ±100ppm/K PWWR0016F300RK9 16W ±1% 470Ω ±100ppm/K PWWR0016F300RK9 16W ±1% 1.1KΩ ±100ppm/K PWWR0016F1K30K9 16W ±1% 1.2KΩ ±100ppm/K PWWR0016F1K30K9 16W ±1% 1.5KΩ ±100ppm/K PWWR0016F2K70K9 </td <td>PWWR0016F75R0K9</td> <td>16W</td> <td>±1%</td> <td>75Ω</td> <td>+100ppm/K</td>	PWWR0016F75R0K9	16W	±1%	75Ω	+100ppm/K
PWWR0016F150RK9 16W ±1% 150Ω +100ppm/K PWWR0016F180RK9 16W ±1% 180Ω +100ppm/K PWWR0016F200RK9 16W ±1% 200Ω +100ppm/K PWWR0016F250RK9 16W ±1% 250Ω +100ppm/K PWWR0016F270RK9 16W ±1% 300Ω +100ppm/K PWWR0016F330RK9 16W ±1% 330Ω +100ppm/K PWWR0016F370RK9 16W ±1% 330Ω +100ppm/K PWWR0016F370RK9 16W ±1% 470Ω +100ppm/K PWWR0016F370RK9 16W ±1% 470Ω +100ppm/K PWWR0016F1K10K9 16W ±1% 750Ω +100ppm/K PWWR0016F1K20K9 16W ±1% 1.2KΩ +100ppm/K PWWR0016F1K30K9 16W ±1% 1.5KΩ +100ppm/K PWWR0016F1K30K9 16W ±1% 1.8KΩ +100ppm/K PWWR0016F2K00K9 16W ±1% 2KΩ +100ppm/K PWWR0016F3K00K9 <td>PWWR0016F110RK9</td> <td>16W</td> <td>±1%</td> <td>110Ω</td> <td>+100ppm/K</td>	PWWR0016F110RK9	16W	±1%	110Ω	+100ppm/K
PWWR0016F180RK9 16W ±1% 180Ω ±100ppm/k PWWR0016F200RK9 16W ±1% 200Ω ±100ppm/k PWWR0016F250RK9 16W ±1% 250Ω ±100ppm/k PWWR0016F270RK9 16W ±1% 270Ω ±100ppm/k PWWR0016F300RK9 16W ±1% 300Ω ±100ppm/k PWWR0016F330RK9 16W ±1% 330Ω ±100ppm/k PWWR0016F470RK9 16W ±1% 470Ω ±100ppm/k PWWR0016F750RK9 16W ±1% 750Ω ±100ppm/k PWWR0016F1K10K9 16W ±1% 1.1KΩ ±100ppm/k PWWR0016F1K20K9 16W ±1% 1.2KΩ ±100ppm/k PWWR0016F1K80K9 16W ±1% 1.8KΩ ±100ppm/k PWWR0016F2K0K9 16W ±1% 1.8KΩ ±100ppm/k PWWR0016F2K0K9 16W ±1% 2.KΩ ±100ppm/k PWWR0016F2K70K9 16W ±1% 3.KΩ ±100ppm/k PWWR0016F3K30K9 <td>PWWR0016F120RK9</td> <td>16W</td> <td>±1%</td> <td>120Ω</td> <td>+100ppm/K</td>	PWWR0016F120RK9	16W	±1%	120Ω	+100ppm/K
PWWR0016F200RK9 16W ±1% 200Ω +100ppm/K PWWR0016F250RK9 16W ±1% 250Ω +100ppm/K PWWR0016F270RK9 16W ±1% 270Ω +100ppm/K PWWR0016F300RK9 16W ±1% 300Ω +100ppm/K PWWR0016F330RK9 16W ±1% 330Ω +100ppm/K PWWR0016F330RK9 16W ±1% 470Ω +100ppm/K PWWR0016F470RK9 16W ±1% 750Ω +100ppm/K PWWR0016F1K10K9 16W ±1% 1.1KΩ +100ppm/K PWWR0016F1K20K9 16W ±1% 1.2KΩ +100ppm/K PWWR0016F1K30K9 16W ±1% 1.8KΩ +100ppm/K PWWR0016F2K00K9 16W ±1% 1.8KΩ +100ppm/K PWWR0016F2K70K9 16W ±1% 2.7KΩ +100ppm/K PWWR0016F3K30K9 16W ±1% 3.3KΩ +100ppm/K PWWR0016F3K30K9 16W ±1% 3.3KΩ +100ppm/K PWWR0016F3K30	PWWR0016F150RK9	16W	±1%	150Ω	+100ppm/K
PWWR0016F250RK9 16W ±1% 250Ω +100ppm/K PWWR0016F270RK9 16W ±1% 270Ω +100ppm/K PWWR0016F300RK9 16W ±1% 300Ω +100ppm/K PWWR0016F330RK9 16W ±1% 330Ω +100ppm/K PWWR0016F470RK9 16W ±1% 470Ω +100ppm/K PWWR0016F750RK9 16W ±1% 750Ω +100ppm/K PWWR0016F1K10K9 16W ±1% 1.1KΩ +100ppm/K PWWR0016F1K20K9 16W ±1% 1.2KΩ +100ppm/K PWWR0016F1K50K9 16W ±1% 1.5KΩ +100ppm/K PWWR0016F1K80K9 16W ±1% 1.8KΩ +100ppm/K PWWR0016F2K70K9 16W ±1% 2KΩ +100ppm/K PWWR0016F3K30K9 16W ±1% 3.3KΩ +100ppm/K PWWR0016F3K30K9 16W ±1% 3.3KΩ +100ppm/K PWWR0016F3K30K9 16W ±1% 3.3KΩ +100ppm/K PWR0016F3K0K9<	PWWR0016F180RK9	16W	±1%	180Ω	+100ppm/K
PWWR0016F270RK9 16W ±1% 270Ω ±100ppm/K PWWR0016F300RK9 16W ±1% 300Ω ±100ppm/K PWWR0016F330RK9 16W ±1% 330Ω ±100ppm/K PWWR0016F470RK9 16W ±1% 470Ω ±100ppm/K PWWR0016F750RK9 16W ±1% 750Ω ±100ppm/K PWWR0016F1K10K9 16W ±1% 1.1KΩ ±100ppm/K PWWR0016F1K20K9 16W ±1% 1.2KΩ ±100ppm/K PWWR0016F1K20K9 16W ±1% 1.5KΩ ±100ppm/K PWWR0016F1K80K9 16W ±1% 1.8KΩ ±100ppm/K PWWR0016F2K00K9 16W ±1% 2KΩ ±100ppm/K PWWR0016F3K00K9 16W ±1% 3KΩ ±100ppm/K PWWR0016F3K30K9 16W ±1% 3.3KΩ ±100ppm/K PWWR0016F3K30K9 16W ±1% 3.3KΩ ±100ppm/K PWWR0016F3K0K9 16W ±1% 3.3KΩ ±100ppm/K PWR0016F3K0K9 <td>PWWR0016F200RK9</td> <td>16W</td> <td>±1%</td> <td>200Ω</td> <td>+100ppm/K</td>	PWWR0016F200RK9	16W	±1%	200Ω	+100ppm/K
PWWR0016F300RK9 16W ±1% 300Ω +100ppm/K PWWR0016F330RK9 16W ±1% 330Ω +100ppm/K PWWR0016F470RK9 16W ±1% 470Ω +100ppm/K PWWR0016F750RK9 16W ±1% 750Ω +100ppm/K PWWR0016F1K10K9 16W ±1% 1.1KΩ +100ppm/K PWWR0016F1K20K9 16W ±1% 1.2KΩ +100ppm/K PWWR0016F1K50K9 16W ±1% 1.8KΩ +100ppm/K PWWR0016F1K80K9 16W ±1% 2KΩ +100ppm/K PWWR0016F2K00K9 16W ±1% 2.7KΩ +100ppm/K PWWR0016F3K00K9 16W ±1% 3KΩ +100ppm/K PWWR0016F3K30K9 16W ±1% 3.3KΩ +100ppm/K PWWR0016F3K30K9 16W ±1% 3.3KΩ +100ppm/K PWWR0016F3K50K9 16W ±1% 4.7KΩ +100ppm/K PWWR0016F3K50K9 16W ±1% 5KΩ +100ppm/K PWWR0016F3K50K9<	PWWR0016F250RK9	16W	±1%	250Ω	+100ppm/K
PWWR0016F330RK9 16W ±1% 330Ω ±100ppm/K PWWR0016F470RK9 16W ±1% 470Ω ±100ppm/K PWWR0016F750RK9 16W ±1% 750Ω ±100ppm/K PWWR0016F1K10K9 16W ±1% 1.1KΩ ±100ppm/K PWWR0016F1K20K9 16W ±1% 1.2KΩ ±100ppm/K PWWR0016F1K50K9 16W ±1% 1.5KΩ ±100ppm/K PWWR0016F2K00K9 16W ±1% 2KΩ ±100ppm/K PWWR0016F2K70K9 16W ±1% 2.7KΩ ±100ppm/K PWWR0016F3K00K9 16W ±1% 3KΩ ±100ppm/K PWWR0016F3K30K9 16W ±1% 3.3KΩ ±100ppm/K PWWR0016F4K70K9 16W ±1% 4.7KΩ ±100ppm/K PWWR0016F5K00K9 16W ±1% 5KΩ ±100ppm/K PWWR0016F5K00K9 16W ±1% 5KΩ ±100ppm/K PWWR0016F5K00K9 16W ±1% 5KΩ ±100ppm/K PWWR0016F5K00K9 <td>PWWR0016F270RK9</td> <td>16W</td> <td>±1%</td> <td>270Ω</td> <td>+100ppm/K</td>	PWWR0016F270RK9	16W	±1%	270Ω	+100ppm/K
PWWR0016F470RK9 16W ±1% 470Ω ±100ppm/K PWWR0016F750RK9 16W ±1% 750Ω ±100ppm/K PWWR0016F1K10K9 16W ±1% 1.1KΩ ±100ppm/K PWWR0016F1K20K9 16W ±1% 1.2KΩ ±100ppm/K PWWR0016F1K50K9 16W ±1% 1.8KΩ ±100ppm/K PWWR0016F1K80K9 16W ±1% 2KΩ ±100ppm/K PWWR0016F2K00K9 16W ±1% 2KΩ ±100ppm/K PWWR0016F2K70K9 16W ±1% 3KΩ ±100ppm/K PWWR0016F3K30K9 16W ±1% 3KΩ ±100ppm/K PWWR0016F3K30K9 16W ±1% 3.3KΩ ±100ppm/K PWWR0016F4K70K9 16W ±1% 4.7KΩ ±100ppm/K PWWR0016F5K00K9 16W ±1% 5KΩ ±100ppm/K PWWR0016F1K00K9 16W ±1% 5KΩ ±100ppm/K	PWWR0016F300RK9	16W	±1%	300Ω	+100ppm/K
PWWR0016F750RK9 16W ±1% 750Ω +100ppm/K PWWR0016F1K10K9 16W ±1% 1.1KΩ +100ppm/K PWWR0016F1K20K9 16W ±1% 1.2KΩ +100ppm/K PWWR0016F1K50K9 16W ±1% 1.5KΩ +100ppm/K PWWR0016F1K80K9 16W ±1% 2KΩ +100ppm/K PWWR0016F2K70K9 16W ±1% 2KΩ +100ppm/K PWWR0016F2K70K9 16W ±1% 3KΩ +100ppm/K PWWR0016F3K00K9 16W ±1% 3KΩ +100ppm/K PWWR0016F3K30K9 16W ±1% 3.3KΩ +100ppm/K PWWR0016F4K70K9 16W ±1% 4.7KΩ +100ppm/K PWWR0016F5K00K9 16W ±1% 5KΩ +100ppm/K PWWR0016F10K0K9 16W ±1% 5KΩ +100ppm/K	PWWR0016F330RK9	16W	±1%	330Ω	+100ppm/K
PWWR0016F1K10K9 16W ±1% 1.1KΩ +100ppm/K PWWR0016F1K20K9 16W ±1% 1.2KΩ +100ppm/K PWWR0016F1K50K9 16W ±1% 1.5KΩ +100ppm/K PWWR0016F1K80K9 16W ±1% 1.8KΩ +100ppm/K PWWR0016F2K00K9 16W ±1% 2KΩ +100ppm/K PWWR0016F2K70K9 16W ±1% 3KΩ +100ppm/K PWWR0016F3K00K9 16W ±1% 3KΩ +100ppm/K PWWR0016F3K30K9 16W ±1% 3.3KΩ +100ppm/K PWWR0016F3K70K9 16W ±1% 4.7KΩ +100ppm/K PWWR0016F5K00K9 16W ±1% 5KΩ +100ppm/K	PWWR0016F470RK9	16W	±1%	470Ω	+100ppm/K
PWWR0016F1K20K9 16W ±1% 1.2KΩ +100ppm/K PWWR0016F1K50K9 16W ±1% 1.5KΩ +100ppm/K PWWR0016F1K80K9 16W ±1% 1.8KΩ +100ppm/K PWWR0016F2K70K9 16W ±1% 2KΩ +100ppm/K PWWR0016F3K00K9 16W ±1% 2.7KΩ +100ppm/K PWWR0016F3K30K9 16W ±1% 3KΩ +100ppm/K PWWR0016F3K30K9 16W ±1% 3.3KΩ +100ppm/K PWWR0016F4K70K9 16W ±1% 4.7KΩ +100ppm/K PWWR0016F5K00K9 16W ±1% 5KΩ +100ppm/K PWWR0016F10K0K9 16W ±1% 5KΩ +100ppm/K PWWR0016F10K0K9 16W ±1% 5KΩ +100ppm/K	PWWR0016F750RK9	16W	±1%	750Ω	+100ppm/K
PWWR0016F1K50K9 16W ±1% 1.5KΩ +100ppm/K PWWR0016F1K80K9 16W ±1% 1.8KΩ +100ppm/K PWWR0016F2K00K9 16W ±1% 2KΩ +100ppm/K PWWR0016F2K70K9 16W ±1% 2.7KΩ +100ppm/K PWWR0016F3K00K9 16W ±1% 3KΩ +100ppm/K PWWR0016F3K30K9 16W ±1% 3.3KΩ +100ppm/K PWWR0016F4K70K9 16W ±1% 4.7KΩ +100ppm/K PWWR0016F5K00K9 16W ±1% 5KΩ +100ppm/K PWWR0016F5K00K9 16W ±1% 5KΩ +100ppm/K PWWR0016F10K0K9 16W ±1% 10KΩ +100ppm/K	PWWR0016F1K10K9	16W	±1%	1.1ΚΩ	+100ppm/K
PWWR0016F1K80K9 16W ±1% 1.8KΩ +100ppm/K PWWR0016F2K00K9 16W ±1% 2KΩ +100ppm/K PWWR0016F2K70K9 16W ±1% 2.7KΩ +100ppm/K PWWR0016F3K00K9 16W ±1% 3KΩ +100ppm/K PWWR0016F3K30K9 16W ±1% 3.3KΩ +100ppm/K PWWR0016F4K70K9 16W ±1% 4.7KΩ +100ppm/K PWWR0016F5K00K9 16W ±1% 5KΩ +100ppm/K PWWR0016F10K0K9 16W ±1% 10KΩ +100ppm/K	PWWR0016F1K20K9	16W	±1%	1.2ΚΩ	+100ppm/K
PWWR0016F2K00K9 16W ±1% 2KΩ +100ppm/K PWWR0016F2K70K9 16W ±1% 2.7KΩ +100ppm/K PWWR0016F3K00K9 16W ±1% 3KΩ +100ppm/K PWWR0016F3K30K9 16W ±1% 3.3KΩ +100ppm/K PWWR0016F4K70K9 16W ±1% 4.7KΩ +100ppm/K PWWR0016F5K00K9 16W ±1% 5KΩ +100ppm/K PWWR0016F10K0K9 16W ±1% 10KΩ +100ppm/K	PWWR0016F1K50K9	16W	±1%	1.5ΚΩ	+100ppm/K
PWWR0016F2K70K9 16W ±1% 2.7KΩ +100ppm/K PWWR0016F3K00K9 16W ±1% 3KΩ +100ppm/K PWWR0016F3K30K9 16W ±1% 3.3KΩ +100ppm/K PWWR0016F4K70K9 16W ±1% 4.7KΩ +100ppm/K PWWR0016F5K00K9 16W ±1% 5KΩ +100ppm/K PWWR0016F10K0K9 16W ±1% 10KΩ +100ppm/K	PWWR0016F1K80K9	16W	±1%	1.8ΚΩ	+100ppm/K
PWWR0016F3K00K9 16W ±1% 3KΩ +100ppm/K PWWR0016F3K30K9 16W ±1% 3.3KΩ +100ppm/K PWWR0016F4K70K9 16W ±1% 4.7KΩ +100ppm/K PWWR0016F5K00K9 16W ±1% 5KΩ +100ppm/K PWWR0016F10K0K9 16W ±1% 10KΩ +100ppm/K	PWWR0016F2K00K9	16W	±1%	2ΚΩ	+100ppm/K
PWWR0016F3K30K9 16W ±1% 3.3KΩ +100ppm/K PWWR0016F4K70K9 16W ±1% 4.7KΩ +100ppm/K PWWR0016F5K00K9 16W ±1% 5KΩ +100ppm/K PWWR0016F10K0K9 16W ±1% 10KΩ +100ppm/K	PWWR0016F2K70K9	16W	±1%	2.7ΚΩ	+100ppm/K
PWWR0016F4K70K9 16W ±1% 4.7KΩ +100ppm/K PWWR0016F5K00K9 16W ±1% 5KΩ +100ppm/K PWWR0016F10K0K9 16W ±1% 10KΩ +100ppm/K	PWWR0016F3K00K9	16W	±1%	3ΚΩ	+100ppm/K
PWWR0016F5K00K9 16W ±1% 5KΩ +100ppm/K PWWR0016F10K0K9 16W ±1% 10KΩ +100ppm/K	PWWR0016F3K30K9	16W	±1%	3.3ΚΩ	+100ppm/K
PWWR0016F10K0K9 16W ±1% 10KΩ +100ppm/K	PWWR0016F4K70K9	16W	±1%	4.7ΚΩ	+100ppm/K
· · · · · · · · · · · · · · · · · · ·	PWWR0016F5K00K9	16W	±1%	5ΚΩ	+100ppm/K
PWWR0016F20K0K9 16W $±1\%$ 20KΩ +100ppm/K	PWWR0016F10K0K9	16W	±1%	10ΚΩ	+100ppm/K
	PWWR0016F20K0K9	16W	±1%	20ΚΩ	+100ppm/K



PWWR

Silicone Cement Coating Leaded High Power Wirewound Resistor

Revision

Version	Revised Content	Date	Approver
VO	Initial Issue	2023/04/27	LFY





PWWR

Silicone Cement Coating Leaded High Power Wirewound Resistor

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