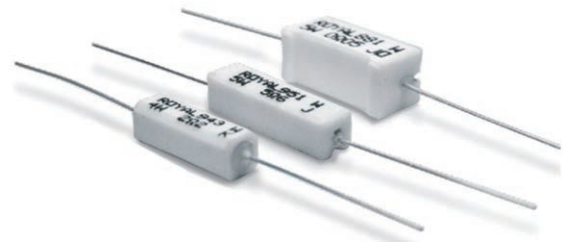
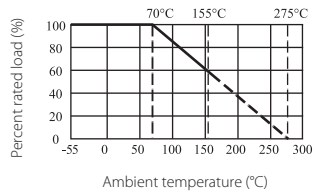


Feature

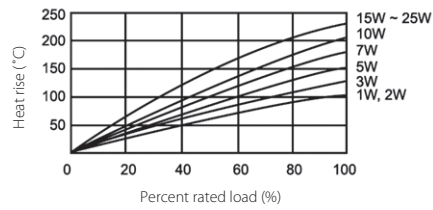
- Self-extinguishing
- Extremely small & sturdy mechanically safe
- Non-inductive type available
- Excellent flame & moisture resistance
- Too low or too high values on Wire-wound & Power-film type can be supplied on a case to case basis



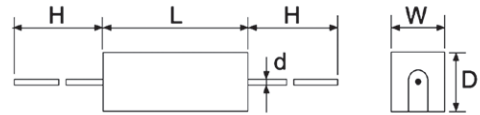
Derating Curve



Heat Rise Chart

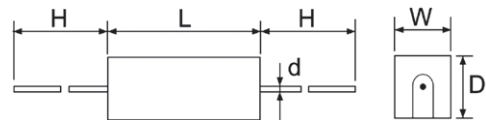


Axial Leaded Type-PRW Series



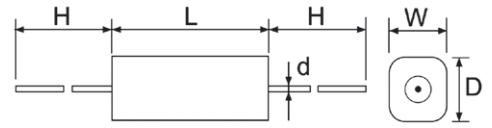
Part No.	Type	Dimension (mm)					Max. working voltage	Max. Overload voltage	Resistance Range	
		W±1	D±1	L±1	H	d±0.05			Wire-wound	Power Film
PRW01W	PRW1W	6	6	13.5	25±3	0.70	200V	400V	0.1Ω~27Ω	28Ω~100KΩ
PRW02W	PRW2W	7	7	18	28±5	0.70	250V	500V	0.1Ω~27Ω	28Ω~120KΩ
PRW03W	PRW3W	8	8	22	32±5	0.70	300V	600V	0.1Ω~39Ω	40Ω~150KΩ
PRW05W	PRW5W	10	9	22	35±5	0.75	350V	700V	0.1Ω~47Ω	48Ω~150KΩ
PRW07W	PRW7W	10	9	35	35±5	0.75	500V	1000V	0.1Ω~68Ω	68Ω~200KΩ
PRW0AW	PRW10W	10	9	49	35±5	0.75	700V	1400V	0.1Ω~91Ω	91Ω~200KΩ
PRW0FW	PRW15W	12.5	11.5	49	35±5	0.75	700V	1400V	1Ω~1.0KΩ	1.1KΩ~200KΩ
PRW020	PRW20W	14.5	13.5	60	35±5	0.75	750V	1500V	2Ω~1.2KΩ	1.3KΩ~200KΩ
PRW025	PRW25W	14.5	13.5	64	35±5	0.75	750V	1500V	2Ω~1.2KΩ	1.3KΩ~200KΩ

Axial Leaded Type-PRWC Series



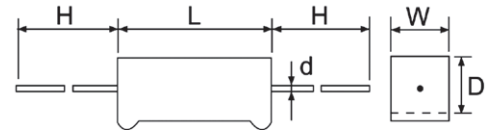
Part No.	Type	Dimension (mm)					Resistance Range	
		W±1	D±1	L±1	H	d±0.05	Wire-wound	Power Film
PRWC1W	PRWC-1W	6	6	12	25±3	0.70	1Ω~27Ω	28Ω~33KΩ
PRWC2W	PRWC-2W	6	6	18	28±5	0.70	1Ω~27Ω	28Ω~33KΩ
PRWC3W	PRWC-3W	6	6	20	28±5	0.70	1Ω~27Ω	28Ω~120KΩ
PRWC5W	PRWC-5W	6	6	25	35±5	0.75	1Ω~200Ω	201Ω~150KΩ
PRWC7W	PRWC-7W	9	9	25	35±5	0.75	1Ω~200Ω	201Ω~150KΩ

Axial Leaded Type-PRWC Series



Part No.	Type	Dimension (mm)					Resistance Range	
		W±1	D±1	L±1	H±5	d±0.05	Wire-wound	Power Film
PRC14W	PRWC-1 4W	6.4	6.4	20	28	0.70	1Ω~200Ω	201Ω~100KΩ
PRC15W	PRWC-1 5W	6.4	6.4	25	28	0.70	1Ω~200Ω	201Ω~100KΩ
PRC16W	PRWC-1 6W	6.4	6.4	38	35	0.75	1Ω~200Ω	201Ω~100KΩ

Axial Leaded Type-PRWA Series



Part No.	Type	Dimension (mm)					Resistance Range	
		W±1	D±1	L±1	H±5	d±0.05	Wire-wound	Power Film
PRWA2W	PRWA-2W	7	7	18	28	0.70	0.1Ω~27Ω	28Ω~120KΩ
PRWA5W	PRWA-5W	10	9	22	35	0.75	0.1Ω~47Ω	48Ω~150KΩ
PRWA7W	PRWA-7W	10	9	35	35	0.75	0.1Ω~680Ω	681Ω~200KΩ
PRWAAW	PRWA-10W	10	9	49	35	0.75	0.1Ω~910Ω	911Ω~200KΩ

*Max. working voltage&Max. Overloadvoltage Reference to PRW Type



The standard Part No. includes 14 digits with the following explanation:

1. 1st~4th digits:
 - a) This is to indicate the SMD Resistor size. Example: 1206, TC05 or HV03;
 - b) For Resistor Network & Coated type, the 1st~3rd digits are to indicate the product type and the 4th digit is the special feature. Example: RNLA = Resistor Network Circuit A type; CFRF = Carbon Film Fixed Resistors Non-Flame type; MORI = Metal Oxide Film Fixed Resistor Non-Inductive type.
 - c) For Cement Fixed Resistors, these 4 digits are to indicate the product type but if the product type has only 3 digits, the 4th digit will be "0". Example: PRW0=PRW type; PRWC=PRWC type.
2. 5th~6th digits:
 - a) This is to indicate the wattage or power rating. To distinguish the sizes and the numbers, the following codes are used, and please refer to the following chart for details: W = Normal Size; S = Small Size; U = Ultra Small Size; "1"~"G" to denotes "1"~"16" as Hexadecimal:

1/16W ~ 1/2W (<1W)

Wattage	1/2	1/3	1/4	1/5	1/6	1/7	1/8	1/9	1/10	1/11	1/12	1/13	1/14	1/15	1/16
Normal Size	W2	W3	W4	W5	W6	W7	W8	W9	WA	WB	WC	WD	WE	WF	WG
Small Size	S2	S3	S4	S5	S6	S7	S8	S9	SA	SB	SC	SD	SE	SF	SG
Ultra Small Size	U2	U3	U4	U5	U6	U7	U8	U9	UA	UB	UC	UD	UE	UF	UG

1W ~ 16W (≥1W)

Wattage	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Normal Size	1W	2W	3W	4W	5W	6W	7W	8W	9W	AW	BW	CW	DW	EW	FW	GW
Small Size	1S	2S	3S	4S	5S	6S	7S	8S	9S	AS	BS	CS	DS	ES	FS	GS
Ultra Small Size	1U	2U	3U	4U	5U	6U	7U	8U	9U	AU	BU	CU	DU	EU	FU	GU

- b) For power rating less than 1W, the 5th digit will be the letters W, S or U to represent the size required & the 6th digit will be a number or a letter code. Example: WA = 1/10W; U2 = 1/2W-SS
 - c) For power rating of 1W to 16W, the 5th digit will be a number or a letter code and the 6th digit will be the letters of W, S or U. Example: AW = 10W; 3S = 3W-S.
 - d) For power rating between 20W to 99W, the 5th & 6th digits will show the whole numbers of the power rating itself. Example: 20 = 20W; 75 = 75W.
 - e) For power rating of 100W & over, the 5th & 6th digits will be indicated with "00" and the actual wattage being indicated at the last 3 digits (12th~14th) of the Part No.
 - f) For special power ratings, the following codes are to be used:
 - 1). WH = 1/32W (10P8 Chip Network)
 - 2). 07 = 3/4WS (Chip 2010 size)
 - 3). 04 = 0.4W-SS (0.4 watt Ultra Small size)
 - 4). 06 = 0.6W-S (0.6 watt Small size)
 - 5). 2A = 2.5W
 - 6). 6A = 6.5W
 - 7). WK = 2/3W
 - 8). 1A = 1.5W
 - 9). 1.25W = 1Q
 - g) For Resistor Network, since the power rating is fixed as 1/8W for A circuit & 1/5W for B circuit, the 5th & 6th digit is to be used to denote the number of pins required. Example: 09 = 9pins; 12 = 12pins.
 - h) For Jumper Wires the 5th & 6th digits will be indicated with "00".
 - i) For Thin Film Chip Resistors, these 2 digits will be used to indicated the requested Temperature coefficient:
 - 1). 05 = 5PPM
 - 2). 10 = 10PPM
 - 3). 15 = 15PPM
 - 4). 25 = 25PPM
 - 5). 50 = 50PPM
3. The 7th digit is to denote the Resistance Tolerance. The following letter code is to be used for indicating the standard Resistance Tolerance. As for Metal Film Fixed Resistor products, it is also to denote the standard PPM as follows:
- | | | |
|---------------------------|-------------------------|-------------------|
| B = ±0.1% (15PPM) | G = ±2% (100PPM) | W = ±0.05% |
| C = ±0.25% (25PPM) | J = ±5% (200PPM) | L = ±0.01% |
| D = ±0.5% (50PPM) | K = ±10% | |
| F = ±1% (50PPM) | | |

*Remark: if it is not one of the above standard "tolerance-TCR", the requirement should be clearly stated when placing order.
Example: ±1% (25PPM), the 7th digit still shows "F" but separately note the requirement of "25PPM"*

4. The 8th to 11th digits is to denote the Resistance Value:

- For the standard resistance values of E-24 series in 5% & 10% tolerance, the 8th digit is "0", the 9th & 10th digits are to denote the significant figures of the resistance and the 11th digit is the number of zeros following
- For the standard resistance values of E-96 series in $\leq 2\%$ tolerance, the 8th digit to the 10th digits are to denote the significant figures of the resistance and the 11th digit is the number of zeros following.
- For the code to the significant figures to E-24 & E-96 series, please refer to page 170 & 171 of the standards Resistance Value list.
- The following numbers and the letter codes is to be used to indicate the number of zeros in the 11th digit:

0 = 10 ⁰	1 = 10 ¹	2 = 10 ²	3 = 10 ³	4 = 10 ⁴	5 = 10 ⁵	6 = 10 ⁶
J = 10 ⁻¹	K = 10 ⁻²	L = 10 ⁻³	M = 10 ⁻⁴	N = 10 ⁻⁵	P = 10 ⁻⁶	
- For Cement Resistors the 8th digit will be coded with "W" or "P" to denote Wire-wound type or Power Film type respectively of the Cement Fixed Resistor product. The 9th to 11th please refer to point 4.a

Example:

<u>E-24 series</u>	<u>E-96 series</u>	<u>Cement Resistors</u>
0120 = 12 ohm	1210 = 121 ohm	W120 = 12 ohm Wire-wound type
0123 = 12K ohm	1302 = 13K ohm	W12J = 1.2 ohm Wire-wound type
012J = 1.2 ohm	196J = 19.6 ohm	P273 = 27 kohm Powe Film type

5. The 12th, 13th & 14th digits:

- The 12th digit is to denote the Packaging type with the following codes:

A = Tape / Box (Ammo Pack)	C = Bulk in Cassette (for Chip product)	
B = Bulk / Box	T = Tape / Reel	P = Tape / Box of PT-26 product
- The 13th digit is normally to indicate the Packing Quantity of Tape/Box or Tape/Reel packaging types. Except for Chip products Bulk packing, this digit should be filled "0" or other products with "Bulk/Box packaging requirement. The following letter codes is to be used for some packaging quantities.

A = 500pcs	B = 2,500pcs	C = 10,000pcs	N = 12,500pcs	E = 15,000pcs
D = 20,000pcs	G = 25,000pcs	L = 45,000pcs	H = 50,000pcs	J = 60,000pcs

Example:

<u>CHIP product</u>	<u>Other products</u>
TD = T/R-20,000	A5 = T/B-5,000
TE = T/R-15,000	TB = T/R-2,500
T4 = T/R-4,000	B0 = B/B

- For the Forming type products, the 13th & 14th digits are used to denote the forming types of the product with the following letter codes:

MF = M type with Flattened lead wire	F0 = F type
MK = M type with Kinked lead wire	F1 = F1 type
ML = M type with normal lead wire	F2 = F2 type
MC = M type with kinked lead wire	F3 = F3 type

- For power rating over 100watt, the 12th to the 14th digits are to denote the actual wattage of the products:

Example: 100 = 100watt 150 = 150watt 225 = 225watt

- For some products, the 14th digit alone can use to denote special features or additional information with the following codes:

P = Panasert type	1 = Avisert 1 type	2 = Avisert 2 type
3 = Avisert 3 type	A = CO 1/4W - A type	B = CO 1/4W - B type

E = used to denote the "Environment Protection, lead Free type" of SMD category resistors (now, this became the Standard type of SMD)

- For some products, the 14th digit alone can use to denote special features or additional information with the following codes:

B=1/32W	C=1/16W	F=1/10W	G=1/8W	H=1/6W	J=1/4W	K=1/3W	M=1/2W
N=3/4W	P=1W	S=Special					