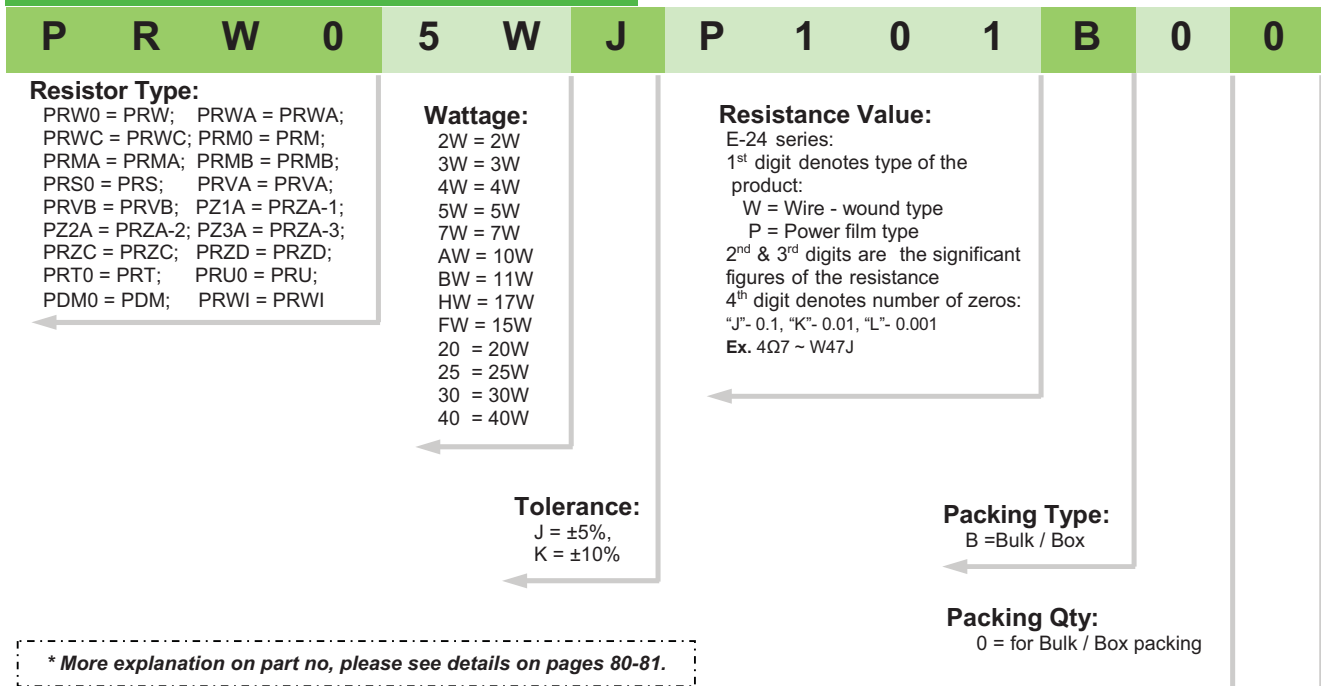


## CEMENT FIXED RESISTORS

### Features

- Self extinguishing
- Excellent flame and moisture resistance
- Extremely small sturdy and mechanically safe
- Non-inductive types available for all Royal Ohm Cement Resistors
- Too low or too high ohmic values on Wire-wound & Power Film type can be supplied on a case to case basis

### Ordering Procedure: (Ex.: PRW 5W, 5%, 100Ω, B/B)



### Performance Specifications

<b>Temperature coefficient</b>	< 20Ω: ±400PPM/°C; ≥ 20Ω: ±350PPM/°C
<b>Short-time overload</b>	$\Delta R/R \leq \pm(5.0\% + 0.05\Omega)$ , with no evidence of mechanical damage.
<b>Dielectric withstanding voltage</b>	No evidence of flashover, mechanical damage, arcing or insulation breakdown.
<b>Terminal strength</b>	No evidence of mechanical damage.
<b>Solderability</b>	Min. 95% coverage
<b>Temperature cycling</b>	$\Delta R/R \leq \pm(2.0\% + 0.05\Omega)$ , with no evidence of mechanical damage.
<b>Humidity (Steady State)</b>	$\Delta R/R \leq \pm(5.0\% + 0.05\Omega)$ , with no evidence of mechanical damage.
<b>Load life in humidity</b>	For Wire-wound range, the $\Delta R/R$ is ±5% For Power film range, <100KΩ, the $\Delta R/R$ is ±5% For Power film range, ≥100KΩ, the $\Delta R/R$ is ±10%
<b>Load life</b>	For Wire-wound range, the $\Delta R/R$ is ±5% For Power film range, <100KΩ, the $\Delta R/R$ is ±5% For Power film range, ≥100KΩ, the $\Delta R/R$ is ±10%
<b>Resistance to soldering heat</b>	$\Delta R/R \pm(1.0\% + 0.05\Omega)$ , with no evidence of mechanical damage.

*\*More details, please see pages 78-79.*

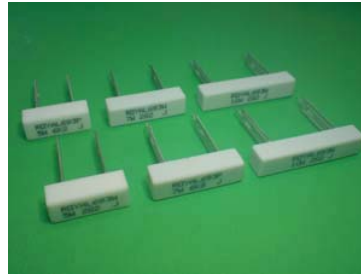
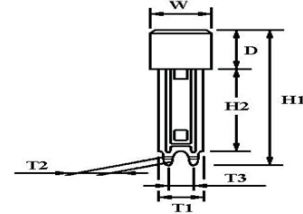
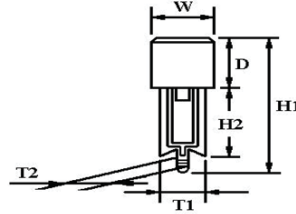
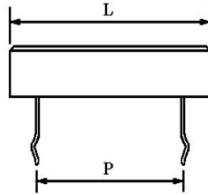
## CEMENT FIXED RESISTORS

### (4) PRZA-1, PRZA-2, PRZA-3, PRZC, PRZD Type

PRZA-1, PRZA-2, PRZA-3, PRZC, PRZD

PRZA-1, PRZA-2, PRZA-3

PRZC, PRZD



### Recommendable Hole

Power Rating at 70°C	Dimension (mm)		P
	PRZA-1, PRZA-2, PRZA-3	PRZC, PRZD	
5W			9.5 / 15
7W			22
10W			32 / 35
15W			32
20W			45

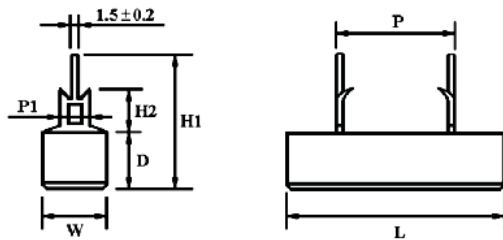
## CEMENT FIXED RESISTORS

### Dimension (mm)

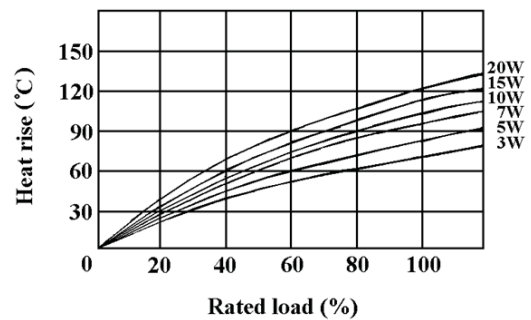
Part No.	Power Rating at 70°C	Type	Dimension (mm)										Resistance Range	
			W±1	D±1	L	P±1.5	T <sub>1</sub> ±1	T <sub>2</sub> ±0.2	T <sub>3</sub> ±0.5	H <sub>1</sub> <sup>+2</sup> <sub>-1</sub>	H <sub>2</sub> <sup>+2</sup> <sub>-1</sub>	Wire-wound	Power Film	
PZ1A5W	5W	PRZA-1	10	9	25 ± 1	9.5	7	1.6		24	10	0.1Ω ~ 120Ω	121Ω ~ 56KΩ	
					27 ± 1									15
PZ2A5W		PRZA-2	10	9	27 ± 1	15	7	1.6		39	25			
PZ3A5W		PRZA-3	10	9	27 ± 1	15	7	1.3		39	25			
PRZC5W		PRZC	10	9	27 ± 1	*15	7	1.5	3.5	36	22			
PRZD5W	PRZD	10	9	27 ± 1	15	7	1.5	3.5	24	10				
PZ1A7W	7W	PRZA-1	10	9	35 ± 1	22	7	1.6		24	10	0.1Ω ~ 560Ω	561Ω ~ 100KΩ	
PZ2A7W		PRZA-2	10	9	35 ± 1	22	7	1.6		39	25			
PRZC7W		PRZC	10	9	35 ± 1	*22	7	1.5	3.5	36	22			
PRZD7W		PRZD	10	9	35 ± 1	22	7	1.5	3.5	24	10			
PZ1AAW	10W	PRZA-1	10	9	48 ± 1.5	32 / 35	7	1.6		24	10	1Ω ~ 820Ω	821Ω ~ 100KΩ	
PZ2AAW		PRZA-2	10	9	48 ± 1.5	32 / 35	7	1.6		39	25			
PRZCAW		PRZC	10	9	48 ± 1.5	*32 / *35	7	1.5	3.5	36	22			
PRZDAW		PRZD	10	9	48 ± 1.5	32 / 35	7	1.5	3.5	24	10			
PZ1AFW	15W	PRZA-1	12.5	11.5	48 ± 1.5	32	10	3		35	15	1Ω ~ 1KΩ		
PZ2AFW		PRZA-2	12.5	11.5	48 ± 1.5	32	10	3		47	30			
PRZCFW		PRZC	12.5	11.5	48 ± 1.5	*32	10	2	5	47	30			
PZ1A20	20W	PRZA-1	12.5	13.5	63 ± 1.5	45	10	3		35	15	2Ω ~ 1.2KΩ		
PZ2A20		PRZA-2	12.5	13.5	63 ± 1.5	45	10	3		47	30			
PRZC20		PRZC	12.5	13.5	63 ± 1.5	*45	10	2	5	47	30			

\*PRZC Type Pitch Tolerance = +2 ~ +6

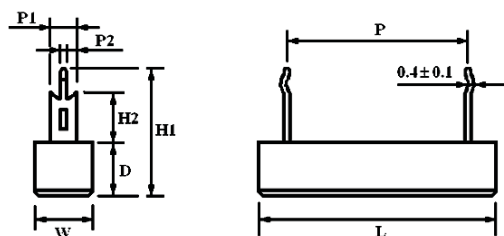
#### (5) PRVA Type



#### Heat Rise Chart (PRVA / PRVB)



#### (6) PRVB Type



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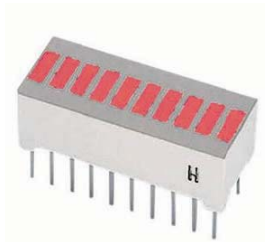


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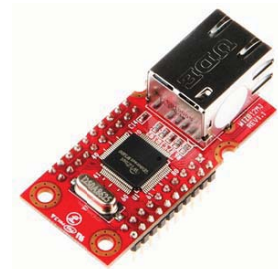
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LCD+Keyboard Shield



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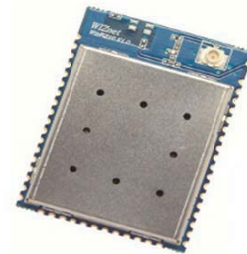
Ethernet Module



Arduino Uno



MicroSD Breakout Board



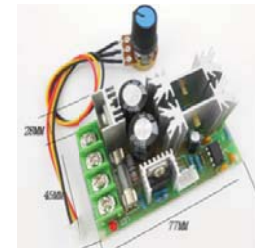
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