



SQF

**FEATURES**

- Low inductance
- Safety flameproof construction
- Thin lightweight body save the PCB space considerably
- Tolerance available:  $\pm 10\%$ ,  $\pm 5\%$ ,  $\pm 2\%$
- Ambient temperature range:  $-55^{\circ}\text{C}$  to  $155^{\circ}\text{C}$

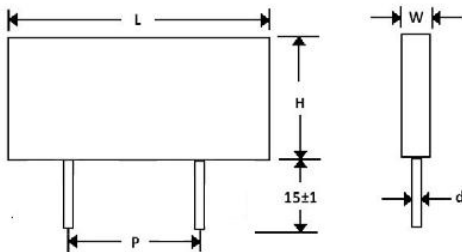
LEADFREE  
RoHS Compliant

**GENERAL SPECIFICATIONS & DIMENSIONS**

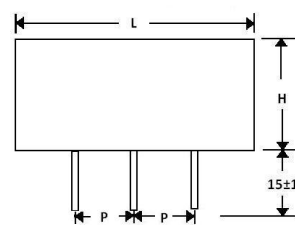
Type	Power Rating at 70°C	L	H	W	d	P	Resistance Range
SQF2W	2W	$13.5 \pm 1.5$	$8.0 \pm 1.0$	$5.0 \pm 1.0$	$0.8 \pm 0.05$	$9.0 \pm 1.0$	0.1Ω ~1Ω
SQF3W	3W	$13.5 \pm 1.5$	$13.0 \pm 1.5$	$5.0 \pm 1.0$	$0.8 \pm 0.05$	$9.0 \pm 1.0$	
SQF33	3W+3W	$26.0 \pm 1.5$	$13.0 \pm 1.5$	$5.0 \pm 1.0$	$0.8 \pm 0.05$	$10.0 \pm 1.0$	
SQF5W	5W	$14.0 \pm 1.5$	$18.0 \pm 1.5$	$5.0 \pm 1.0$	$0.8 \pm 0.05$	$9.0 \pm 1.0$	
SQF10W	10W	$26.0 \pm 1.5$	$17.0 \pm 1.5$	$5.0 \pm 1.0$	$0.8 \pm 0.05$	$10.0 \pm 1.0$	
SQF55	5W+5W	$26.0 \pm 1.5$	$18.0 \pm 1.5$	$5.0 \pm 1.0$	$0.8 \pm 0.05$	$10.0 \pm 1.0$	
SQF77	7W+7W	$26.0 \pm 1.5$	$20.0 \pm 1.5$	$5.0 \pm 1.0$	$0.8 \pm 0.05$	$10.0 \pm 1.0$	

Note: Resistance lower than 0.1Ω are available upon request.

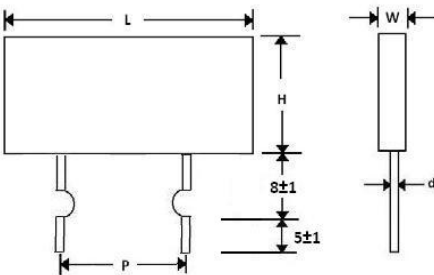
**Single Circuit Straight Leads**



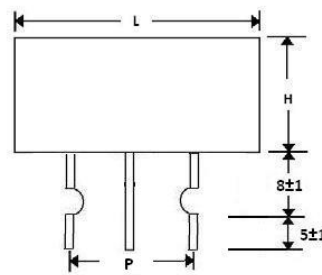
**Twins Circuit Straight Leads**



**Single Circuit Forming Leads**



**Twins Circuit Forming Leads**

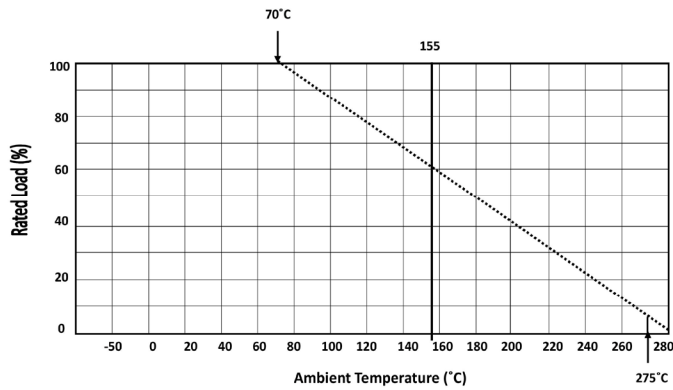


**PART NUMBERING SYSTEM**

SQF	01	—	100	J	T	
Type	Code	Wattage	Resistance Tolerance		Packaging	
SQF	2W	2W	J	5%	Code	Description
	3W	3W	K	10%	B	Bulk (Straight Leads)
	33	3W+3W			MK	Bulk (Forming Leads)
	5W	5W	3 DIGIT CODE (5% Tolerance)			
	10W	10W	Resistance Value			
	55	5W+5W	Code	R10	R50	100
	77	7W+7W	Values	100mΩ	500mΩ	1Ω

SQF

## DERATING CURVE



## CHARACTERISTICS

Requirements	Performance	Test Method Jis 5201-1
Resistance	$\pm 5\%$ , $\pm 10\%$	Measuring points ar 10mm $\pm$ 1.0mm from the end body.
T.C.R.	$\pm 350\text{ppm} / ^\circ\text{C}$	Room temperature / 100°C up.
Short Time Overload	$\pm 2\%$	Rated Voltage x 2.5, 5s.
Resistance to Solder Heat	$\pm 2\%$	Immerse the leads 2.0mm from the root of termination to the solder at 260°C $\pm$ 5°C for 10 secs $\pm$ 1s.
Solderability	95% coverage min.	260°C $\pm$ 5°C, 2s $\pm$ 0.5s
Terminal Strength	No mechanical damage	Direct Load: 10N, 10sec Bending Test: 5N 90°, 2 times
Moisture Resistance	$\pm 5\%$	40°C $\pm$ 2°C, 90%~95% RH, 1000hr, 1.5hr. On / 0.5hr, Off cycle
Load Life	$\pm 5\%$	70°C $\pm$ 2°C, 1000hr, 1.5hr. On / 0.5hr, Off cycle
Resistance to Solvent	No visible damage to protective coating and marking	After immersing the sample in I.P.A. for 60s $\pm$ 10s, the resistor surface is rubbed with absorbent cotton for 10 times
Ambient Temperature Range	-55°C to +155°C	