





**SYNTON-TECH CORPORATION**  
**CEMENT POWER RESISTOR**  
**( SQF TYPE )**

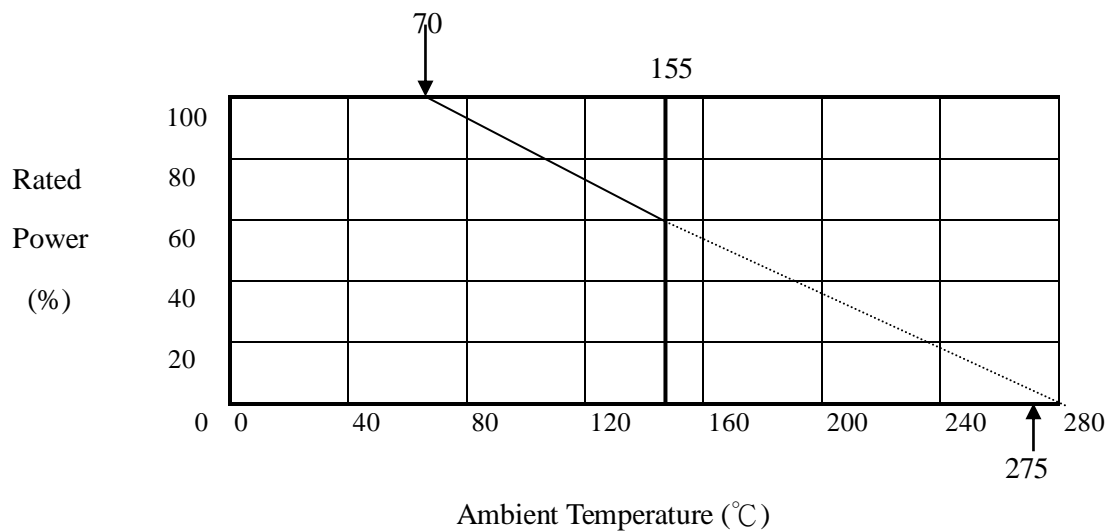
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## 2. FEATURE

- LOW INDUCTANCE
- SAFETY FLAMEPROOF CONSTRUCTION
- THIN LIGHTWEIGHT BODY SAVE THE PCB SPACE CONSIDERABLY
- TOLERANCE AVAILABLE :  $\pm 10\%$ ,  $\pm 5\%$ ,  $\pm 2\%$
- T.C.R.(PPM/ $^{\circ}\text{C}$ )Max. :  $\pm 300\text{ppm}$

( special low to  $\pm 25\text{PPM}$  , high to  $\pm 1500\text{PPM}$  )

## 3. DERATING CURVE

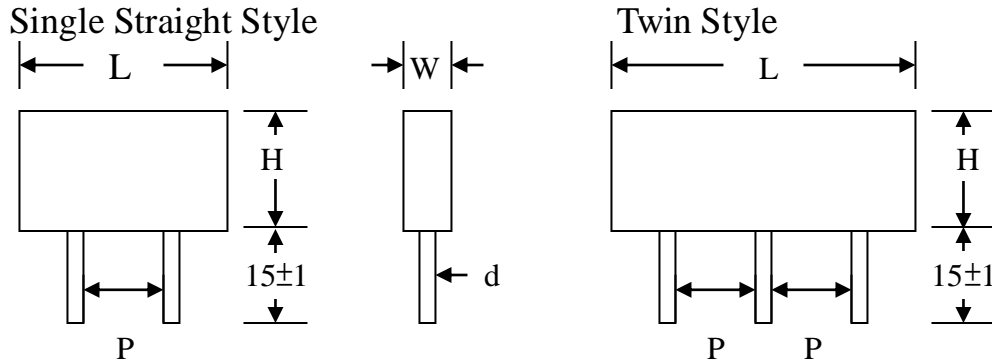




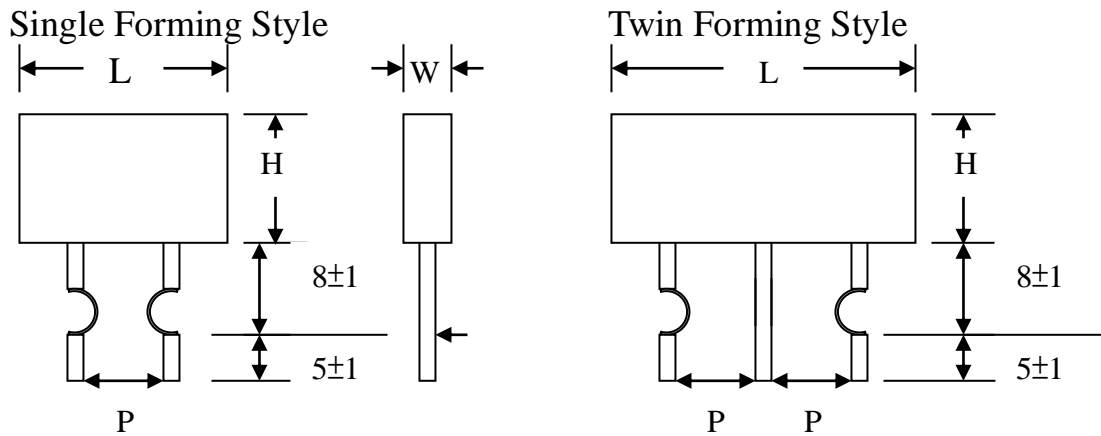
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**4. DIMENSIONS**



**MK TYPE**



TYPE	Power Rating at 70°C	DIMENSIONS (mm)					Maximum Working Voltage	Maximum Overland Voltage	Resistance Range
		L	H	W	d	P			
SQF03	3W	13.5±1.5	13±1.5	5±1.0	0.75±0.1	10±1	350V	700V	0.1Ω~1Ω
SQF33	3W+3W	26±1.5	13±1.5	5±1.0	0.75±0.1	10±1	350V	700V	
SQF05	5W	14±1.5	18±1.5	5±1.0	0.75±0.1	10±1	350V	700V	
SQF55	5W+5W	26±1.5	18±1.5	5±1.0	0.75±0.1	10±1	350V	700V	
SQF77	7W+7W	26±1.5	20±1.5	5±1.0	0.75±0.1	10±1	350V	700V	

Figure1



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## 5. PERFORMANCE

Test Characteristics	Test Methods JIS 5201-1	Performance Requirement
Resistance	Measuring points are 10mm±1mm from the end body.	Within regular tolerance
T . C . R .	Room temperature / 100°C up	Within specified T.C.R.
Short time overload	Rated voltage ×2.5 , 5s	±2%
Resistance to soldering heat	Immerse the leads excepting 2.0mm from the root of termination to the solder at 260°C±5°C for 10s±1s.	±2%
Solderability	260°C ±5°C , 2s ± 0.5s	75% Coverage min.
Terminal strength	Direct load : 10N , 10sec Bending test : 5N 90° , 2 times	No mechanical damages
Moisture resistance	40°C±2°C , 90%~92%RH, 1000h , 1.5h ON / 0.5h OFF cycle	±5%
Load life	70°C±2°C , 1000h 1.5h ON / 0.5h OFF cycle	±5%
Resistance to solvent	After immersing the sample in I.P.A. for 60s±10s, the resistor surface should be rubbed with absorbent cotton for 10 times	No visible damage to protective coating and marking

Figure2