

CEMENT RESISTORS

RADIAL TERMINALS TYPE

SQZ Series (Standard Type)
NSZ Series (Non-Inductive Type)

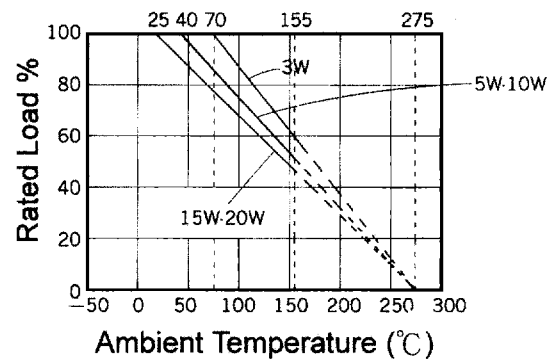
INTRODUCTION

- The materials used and the construction techniques ensure excellent flame resistance arc resistance and moisture resistances as well as self-extinguishing capabilities. They will withstand the most rigorous loading test
- As resistors in radio and television receivers, the hazardous conditions of smoking and redheat can be completely prevented by the proper choice of power resistors

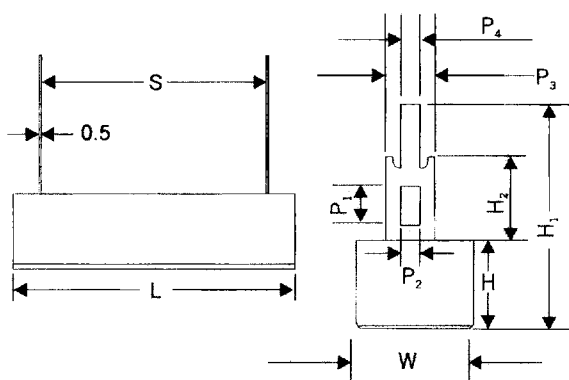
FEATURES

- Space saving stand-off type
- Tolerance : 5%
- Completely unflamable

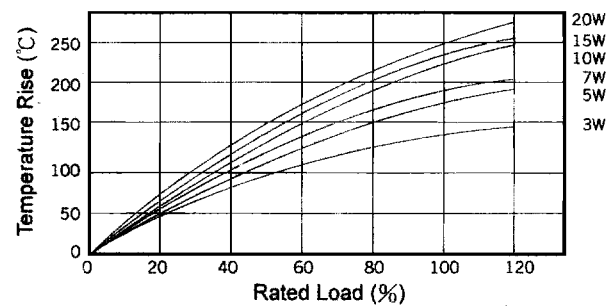
DERATING CURVE



DIMENSIONS



TEMPERATURE RISE



STYLE	DIMENSION (mm)									
	L	H	W	S	H ₁	H ₂	P ₁	P ₂	P ₃	P ₄
SQZ300	24.0±1.5	9.0±1	9.0±1	12.5±1	24.0±1	9.5±1.0	4.0±0.2	2.0±0.2	5.0±0.2	1.4±0.1
SQZ500	27.0±1.5	9.5±1	9.5±1	15.0±1	24.0±1	9.5±1.0	4.0±0.2	2.0±0.2	5.0±0.2	1.4±0.1
SQZ700	35.0±1.5	9.5±1	9.5±1	22.5±1	24.0±1	9.5±1.0	4.0±0.2	2.0±0.2	5.0±0.2	1.4±0.1
SQZ10A	48.0±1.5	9.5±1	9.5±1	32.5±1	24.0±1	9.5±1.0	4.0±0.2	2.0±0.2	5.0±0.2	1.4±0.1
SQZ15A	48.0±1.5	12.5±1	12.5±1	35.0±1	34.5±1	15.0±1.5	7.0±0.2	6.0±0.2	10.0±0.2	2.7±0.1
SQZ20A	63.5±2.0	12.5±1	12.5±1	50.0±1	34.5±1	15.0±1.5	7.0±0.2	6.0±0.2	10.0±0.2	2.7±0.1

ELECTRICAL CHARACTERISTICS

Style	SQZ300	SQZ500	SQZ700	SQZ10A	SQZ15A	SQZ20A
Power Rating at 70°C	3W	5W	7W	10W	15W	20W
Operating Temp. Range	-55°C to +155°C					
Maximum Working Volt.	250V	350V	500V	500V	500V	500V
Maximum Overload Volt.	500V	700V	1000V	1000V	1000V	1000V
Dielectric withstanding Volt.	500V	700V	1000V	1000V	1000V	1000V
Value Range ±5% (Ceramic Core)	0.22Ω~120Ω	0.47Ω~180Ω	0.68Ω~220Ω	1Ω~270Ω		
Value Range ±5% (Metal Oxide Film)	130Ω~22KΩ	200Ω~33KΩ	240Ω~10KΩ	300Ω~10KΩ		
Temp. Coefficient	±300ppm/°C					

- ※ 1. Standard resistance is as the above list, below or over this resistance on request.
2. Non-Inductive type up to 50Ω only.

ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD	APPRAISE
Short Time Overload	JIS-C-5202 5.5 2.5 times RCWV for 5 seconds	±(2 % + 0.05 Ω)
Dielectric withstanding Voltage	JIS-C-5202 5.7 in V-Block for 60 seconds	by Type
Temperature Coefficient of Resistance	JIS-C-5202 5.2 -55°C to +155°C	±300ppm/°C
Insulation Resistance	JIS-C-5202 5.6 in V-Block	>100MΩ
Solderability	JIS-C-5202 6.5 235°C for 5±0.5 seconds	95% min. coverage
Resistance to Solvent	JIS-C-5202 6.9 Trichroethane for 1 min. with ultrasonic	no deterioration of coatings and markings
Terminal Strength	Direct load for 10 sec. in the direction of the terminal leads	≥ 2.5kg (24.5N)
Pulse Overload	JIS-C-5202 5.8 4 times RCWV 10000 cycles (1 sec. on, 25 sec. off)	±(2 % + 0.05 Ω)
Load Life in Humidity	JIS-C-5202 7.9 40±2°C, 90~95% RH at RCWV for 1000 hrs. (1.5 hrs. on, 0.5 hrs. off)	±(5 % + 0.05 Ω)
Load Life	JIS-C-5202 7.10 70°C at RCWV for 1000 hrs. (1.5 hrs. on, 0.5 hrs. off)	±(5 % + 0.05 Ω)
Temperature Cycling	JIS-C-5202 7.4 -65°C → room temp. → 150°C → room temp. for 5 cycles	±(2 % + 0.05 Ω)
Resistance to Soldering Heat	JIS-C-5202 6.4 350°C ± 10°C for 3±0.5 seconds	±(1 % + 0.05 Ω)

※ Rated continuous Working Voltage (RCWV) = $\sqrt{\text{power rating} \times \text{resistance value}}$