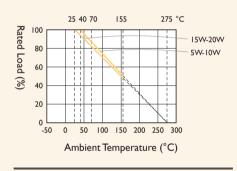
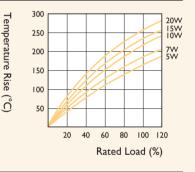
Cement Resistors

Radial Terminal Type

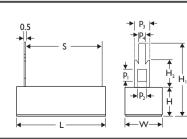
Normal Style [SQZ Series] Non-Inductive Style [NSZ Series]

Power Rating	5W, 7W, 10W, 15W, 20W
Resistance Tolerance	Wirewound: ±1%, ±5%, Film:±5/°C
T.C.R.	Wirewound: ±100ppm/°C , ±300ppm/°C, Film:±300ppm/°C





As resistors in radio and television receivers, hazardous conditions such as smoking and redheat can be completely prevented by the proper choice of power resistors.



STYLE		DIMENSION									
Normal	Non-Ind.	L	н	W	S	H,	H ₂	P	P ₂	Ρ ₃	P ₄
SQZ500	NSZ500	28.0±1.5	10.0±1.0	10.0±1.0	15.0±1.5	25.0±1.5	10.0±1.0	4.0±0.2	2.0±0.2	5.0±0.2	1.5±0.2
SQZ700	NSZ700	35.0±1.5	10.0±1.0	10.0±1.0	22.5±1.5	25.0±1.5	10.0±1.0	4.0±0.2	2.0±0.2	5.0±0.2	1.5±0.2
SQZ10A	NSZ10A	48.0±1.5	9.5±1.0	10.0±1.0	32.0±1.5	25.0±1.5	10.5±1.0	4.0±0.2	2.0±0.2	5.0±0.2	1.5±0.2
SQZ15A	NSZ15A	48.0±1.5	12.5±1.0	13.0±1.0	32.0±1.5	35.0±1.5	15.0±1.5	7.0±0.2	4.0±0.2	10.0±0.5	3.0±0.2
SQZ20A	NSZ20A	63.0±1.5	12.5±1.0	12.5±1.0	42.5±1.5	35.0±1.5	15.0±1.5	7.0±0.2	4.0±0.2	10.0±0.5	3.0±0.2



The materials used and the construction techniques ensure excellent flame resistance, arc resistance and moisture resistance as well as self-extinguishing capabilities. They will withstand the most rigorous loading test.

Unit: mm



ELECTRICAL CHARACTERISTICS

NORMAL STYLE

STYLE	SQZ500	SQZ700	SQZI0A	SQZ15A	SQZ20A	
Power Rating at 25°C				15W	20W	
Power Rating at 40°C	5W	7W	10W			
Maximum Working Voltage	350V	500V				
Maximum Overload Voltage	700V	1,000V				
Voltage Proof on Insulation	700V	1,000V				
Resistance Range (Wirewound)	0.36Ω - 200Ω		0.56Ω - 430Ω	ΙΩ - 560Ω	Ι.5Ω - 750Ω	
Resistance Range (Film)	220Ω - ΙΜΩ	300Ω - ΙΜΩ	470Ω - ΙΜΩ	750Ω - ΙΜΩ	820Ω - ΙΜΩ	
Operating Temp. Range	-55°C to +155°C					
Temperature Coefficient						

NON-INDUCTIVE STYLE

STYLE	NSZ500	NSZ700	NSZ10A	NSZI5A	NSZ20A
Power Rating at 25°C				15₩	20W
Power Rating at 40°C	5W	7W	10W		
Maximum Working Voltage	$\sqrt{P \times R}$				
Voltage Proof on Insulation	700V	1,000V			
Resistance Range (Wirewound)	0.ΙΩ - Ι0Ω		0.ΙΩ - 20Ω		0.ΙΩ - 30Ω
Operating Temp. Range	-55°C to +155°C				
Temperature Coefficient	±300ppm/°C				

Note: Special value is available on request

ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD		APPRAISE
Short Time Overload	IEC 60115-1 4.13	2.5 times RCWV for 5 sec. (Not more than maximum Overload Voltage)	±2.0%+0.05Ω
Voltage Proof on Insulation	IEC 60115-1 4.7	In V-Block for 60 sec., test voltage as above table	No Breakdown
Temperature Coefficient	IEC 60115-1 4.8	Between -40°C to +155°C	By type
Insulation Resistance	IEC 60115-1 4.6	in V-block for 60 Sec.	>I,000MΩ
Solderability	IEC 60115-1 4.17	245±5°C for 3±0.5 Sec.	95% Min. coverage
Solvent Resistance of Marking	IEC 60115-1 4.30	IPA for 5±0.5 Min. with ultrasonic	No deterioration of coatings and markings
Periodic-pulse Overload	IEC 60115-1 4.39	4 times RCWV 10,000 cycles (1 Sec. on, 25 Sec. off)	±2.0%+0.05Ω
Damp Heat Steady State	IEC 60115-1 4.24	40±2°C, 90-95% RH for 56 days, loaded with 0.1 times RCWV	±5.0%+0.05Ω
Endurance at 70°C	IEC 60115-1 4.25	70±2°C at RCWV (or Umax., Whichever less) for 1,000 Hr. (1.5Hr.on, 0.5Hr. Off)	±5.0%+0.05Ω
Temperature Cycling	IEC 60115-1 4.19	-55°C ⇔ Room Temp. ⇔ +155°C ⇔ Room Temp. (5 cycles)	±2.0%+0.05Ω
Resistance to Soldering Heat	IEC 60115-1 4.18	$260\pm3^{\circ}$ C for 10 ± 1 Sec., immersed to a point 3 ± 0.5 mm from the body	±1.0%+0.05Ω

Note: Rated Continuous Working Voltage (RCWV) = $\sqrt{Power Rating \times Resistance Value}$ or Max. working voltage listed above, whichever less.

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 RWR81S4R99FPB12
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