

ELECTRICAL CHARACTERISTICS:

• SQZ-YE / SQZ-YA / SQZ-YC

<div>Power Rating 70°C</div> <div>Style</div>	SQZ-YE-3W/ SQZ-YA-3W/ SQZ-YC-3W	SQZ-YE-5W/ SQZ-YA-5W/ SQZ-YC-5W	SQZ-YE-7W/ SQZ-YA-7W/ SQZ-YC-7W	SQZ-YE-10W/ SQZ-YA-10W/ SQZ-YC-10W
Operating Temp. Range		-55°C ~ +155°C		
Max. Working Voltage	250V	350V	500V	500V
Max. Overload Voltage	500V	700V	1000V	1000V
Dielectric Withstanding Voltage (AC)	500V	700V	1000V	1000V
Value Range ±5% (Ceramic core)	0.1 ~ 100Ω		0.5 ~ 220Ω	
Value Range ±5% (Metal Oxide Film)	110Ω ~33K		240Ω ~10K	
Temp. Coefficient	±300ppm/°C			

• SQZ-YB / SQZ-YD

<div>Power Rating 70°C</div> <div>Style</div>	SQZ-YB-15W/ SQZ-YD-1-15W SQZ-YB-20W/ SQZ-YD-1-20W	SQZ-YD-3W	SQZ-YD-5W	SQZ-YD-7W	SQZ-YD-10W	SQZ-YD-15W	SQZ-YD-20W
Operating Temp. Range	-55°C ~ +155°C						
Max. Working Voltage	500V	250V	350V	500V	500V	500V	500V
Max. Overload Voltage	1000V	500V	700V	1000V	1000V	1000V	1000V
Dielectric Withstanding Voltage (AC)	1000V	500V	700V	1000V	1000V	1000V	1000V
Value Range ±5% (Ceramic core)	1.0 ~ 270Ω	0.1 ~ 100Ω		0.5 ~ 220Ω		1.0 ~ 270Ω	
Value Range ±5% (Metal Oxide Film)	300Ω ~ 10K						
Temp. Coefficient	±300ppm/°C						

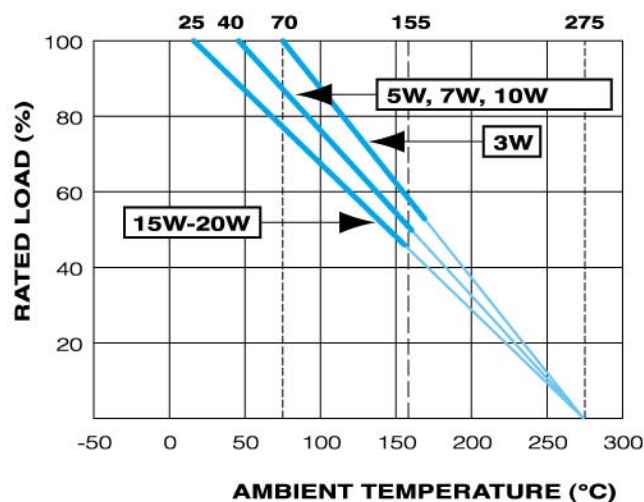
- * a. Standard resistance is as the above list, below or over this resistance is on request.
b. Value for NKN Non-Inductive type is up to 50Ω only.

ENVIRONMENTAL CHARACTERISTICS:

PERFORMANCE TEST	TEST METHOD	APPRAISE
Short Time Overload	JIS-C-5202 5.5: 2.5 times RCWV for 5 seconds	±(0.25%+0.05Ω)
Dielectric Withstanding V.	JIS-C-5202 5.7: in V-Block for 60 seconds	By Type
Temperature Coefficient	JIS-C-5202 5.2: -55°C ~ +155°C	Max. 300ppm/°C
Insulation Resistance	JIS-C-5202 5.6: in V-Block	≥ 1000 MΩ
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
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 time RCWV 10000 cycles (1 sec.on, 25 sec.off)	±(2%+0.05Ω)
Toad Life in Humidity	JIS-C-5202 7.9: 40±2°C, 90 ~ 95% RH at RCWV for 1000hrs (1.5hrs. on, 0.5 hrs. off)	±(5%+0.05Ω)
Load Life	JIS-C-5202 7.10: 70°C at RCWV for 1000hrs (1.5hrs. on, 0.5hrs. off)	±(5%+0.05Ω)
Temperature Cycling	JIS-C-5202 7.4: 65°C ~ room temp. ~ 150°C ~ room temp for 5 cycle	±(2%+0.05Ω)
Soldering Heat	JIS-C-5202 6.4: 350±10°C for 3±0.5 seconds	±(1%+0.05Ω)

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

DERATING CURVE



TEMPERATURE RISE

