

SQP SERIES

CEMENT TYPE RESISTOR

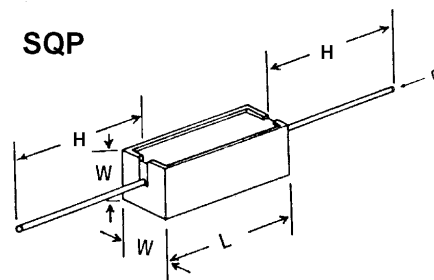
WIRE WOUND & METAL OXIDE



STANDARD TYPE **SQP**(4W, 5W, 7W, 10W, 15W, 20W, 25W)

FEATURES:

- SPEC PER IEC 115-4.
- STANDARD TOLERANCE: $\pm 5\%$ (J) & $\pm 10\%$ (K).
- NON FLAMMABLE.
- HIGH POWER, HIGH RELIABILITY.
- HIGH WITHSTANDING VOLTAGE.
- EXCELLENT HEAT DISSIPATION AGAINST NORMAL METAL OXIDE RESISTOR.
- RESISTANCE VALUE OVER 50 OHM USE METAL OXIDE ELEMENT I/O WIRE WOUND.



DIMENSIONS:

TYPE NO.	DIMENSIONS				
	WATT	L (mm)	W (mm)	d $\pm 0.05\text{mm}$	H $\pm 3.0\text{mm}$
SQP620	4W	20 ± 1.5	6.4 ± 0.5	0.8	35
SQP625	5W	25 ± 1.5	6.4 ± 0.5	0.8	35
SQP05	5W	22 ± 1.5	10.0 ± 1.0	0.8	35
SQP07	7W	35 ± 1.5	10.0 ± 1.0	0.8	35
SQP10	10W	48 ± 1.5	10.0 ± 1.0	0.8	35
SQP15	15W	48 ± 1.5	12.5 ± 1.0	0.8	35
SQP20	20-25W	60 ± 2.0	14.0 ± 1.0	0.8	35

SPECIAL SIZES, VALUES AND SPECIFICATIONS NOT LISTED AVAILABLE ON SPECIAL ORDER.

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CHARACTERISTICS:

POWER RATED (70°C)		SQP620 SQP625 4W 5W	SQP05 5W	SQP07 7W	SQP10 10W	SQP15 15W	SQP20 20-25W
ITEM							
MAX WORKING VOLTAGE		350V	350V	500V	750V	1000V	1000V
MAX OVERLOAD VOLTAGE		600V	600V	700V	1200V	1500V	1500V
DIELECTRIC WITHSTANDING VOLTAGE		1000V	1000V	1000V	1000V	1000V	1000V
RESISTANCE TOLERANCE		± 5%(J) ±10%(K)	± 5%(J) ±10%(K)	± 5%(J) ± 10%(K)	± 5%(J) ± 10%(K)	± 5%(J) ± 10%(K)	± 5%(J) ± 10%(K)
RESISTANCE RANGE	MIN	0.01R	0.01R	0.01R	0.01R	0.05R	0.05R
	MAX	1K	50K	50K	50K	100K	100K

NOTE 1: TOO LOW OHMIC VALUE CAN BE SUPPLIED CASE BY CASE.

NOTE 2: RATED CONTINUOUS WORKING VOLTAGE (RCWV) SHALL BE DETERMINED FROM

RCWV = $\sqrt{\text{POWER RATING} \times \text{RESISTANCE VALUE}}$

PERFORMANCE SPECIFICATIONS :

CHARACTERISTIC	SPECIFICATIONS			TEST METHODS
DC RESISTANCE	K (± 10%) J (± 5%)	J (± 5%)		AT 25°C
TEMPERATURE COEFFICIENT	0R09-0R01	0R1-1R	≥ 1R	RESISTANCE VALUE AT ROOM TEMPERATURE AND ROOM TEMPERATURE + 100°C
	± 1000PPM/°C	± 500PPM/°C	± 300PPM/°C	
SHORT TIME OVER LOAD	± (2% ± 0.01R)	± (2% ± 0.05R)		2.5 TIME RCWV 5 SEC.
INSULATION RESISTANCE	1000MOHM NIN.			500V
LOAD LIFE	± (5% ± 0.01R)	± (5% ± 0.05R)		70°C , 1000 HRS.
LOAD LIFE IN HUMIDITY	± (5% ± 0.01R)	± (5% ± 0.05R)		40°C , 90-95%RH, 1000 HRS.
TEMPERATURE CYCLING	± (5% ± 0.01R)	± (2% ± 0.05R)		– 25°C / 105°C , 5 CYCLING.
INCOMBUSTIBILITY	NOT FLAMED			16 TIME RATED POWER 5 MIN.
SOLDERABILITY	95% COVERAGE MINIMUM			240 °C , 3 SEC.