Cement Resistor Horizontal-Pin Type

FEATURE

- High Load, Heat-Sink Performance, Non-Flame
- Stable Performance of High Voltage

ELECTRICAL CHARACTERISTICS

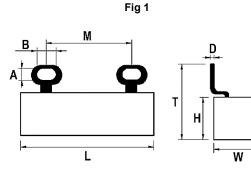
• Application: Power Supply, Industrial System, VFD Control, CNC Equipments



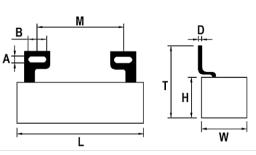


Rated Operating Max Max Resistance Insulation Power Tolerance Working Overload TCR Temperature Series Range Voltage at 70°C (PPM/°C) (%) Voltage Voltage Range (Ω) (V) (W) (V) (V) (°C) SQK5W 5 250 350 SQK10W 10 250 350 1000 SQK15W 15 500 350 ±100 J(±5) ±250 SQK20W 20 10~500K 500 750 -55~+275 K(±10) ±350 SQK25W 25 500 750 ±500 SQK30W 30 750 1000 1500 SQK50W 1000 50 750

DIMENSIONS





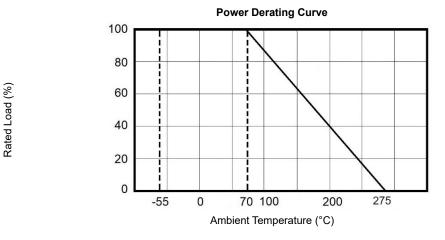


Unit: mr

Power Rating	L ±1.0	W ±0.5	H ±2.0	T ±2.0	D ±0.2	M ±1.0	A ±0.5	B ±0.5	Terminal Type
5W	48	9.5	9.5	23	0.6	32	6	8	
10W	48	12.5	12.5	26					Fig.1-Round tab (Blank)
15W	48	12.5	12.5	26					
20W	63	12.5	12.5	26					
25W	63	12.5	12.5	26					Fig.2-Square Tab (S)
30W	75	19.5	19.5	33					
50W	90	19.5	19.5	33	1				

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CHARACTERISTIC CURVES



RELIABILITY TEST CONDITION AND REQUIREMENT – Refer to IEC 60115-1

Test	Condition	Requirement
Short Time Overload	$\sqrt{10 * W * R}$ or Rated Votage whichever is smller for 5 seconds. Then removing the voltage and place the resistors to the normal condition for 30 minutes	±(2.0% + 0.05Ω)
Temperature Coefficient Resistance (T.C.R.)T.C (ppm/°C) = [(R2-R1)÷R1] × [1÷(T2-T1)] ×106		±100ppm/°C
Voltage Proof	Applying Rated Voltage, I≤1mA for 60 seconds	$\pm(1.0\% + 0.05\Omega)$
Insulation Resistance	In V-Block for DC500V megger	>100MΩ
Endurance	70°C at RCWV for 1000 hrs, (1.5 hrs on, 0.5 hrs off)	$\pm (5.0\% + 0.05\Omega)$
Temperature Cycling	25±3°C /15min→85±3°C /15min → 25±3°C /15min →-25±3°C /15min (1000 Hours)	$\pm (1.0\% + 0.05\Omega)$
Resistance to Soldering Heat		
Solderability	erability 245±5°C for 5sec.	
Terminal Strength	rminal Strength Direct load for 10 sec in the direction of the terminal leads.	

Notes: 1. Operating Temperature: -55°C ~ +275°C

2. Rated Continuous Working Voltage (RCWV) = $\sqrt{Power.Rating * Resistance.Value}$

<u>S</u> (5)

PART NUMBERING SYSTEM

<u>SQK</u> <u>25W</u> <u>15KJ</u> <u>K5</u> (1) (2) (3) (4)

No.	No. Item		Description				
(1)	Meritek Series	SQK	Cement Resistor, Horizontal-Pin Type				
(2)	Power Rating 25W		25W	Power Rating at 70°C			
(3)	Resistance	15KJ	15KΩ ±5%(J)	J: ±5% ,K: ±10%			
(4)	TCR Code	K5	±500PPM/°C	K1: ±100 (PPM/°C), K25: ±250 (PPM/°C)			
(4)	Internal Code	S	S: Square Tab Terminal	Blank: Round Tab Terminal			