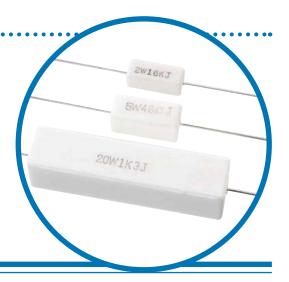
Ceramic Case Resistors – Wirewound / Metal Oxide



SQP Series

- 2 watts to 20 watts*
- Resistance 0R1 to 100K
- High overload capability
- RoHS compliant



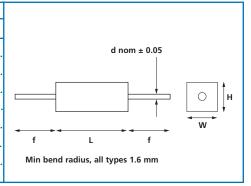
Electrical Data

		SQP2	SQP3	SQP5	SQP7/7S	SQP10	SQP15	SQP20
Power rating at 70°C	watts	2	3	5	7	10	15	20
Resistance range	Wirewound	0R1-50R	0R1-	0R1-	0R1-100R	0R1-	OR1-	0R1-
			100R	100R	(7 & 7S)	200R	200R	500R
	Metal Oxide	51R-	100R-	110R-	110R-47K	220R-	220R-	510R-
	(Ohms)	47K	47K	47K	(7 Only)	68K	68K	100K
Limiting element voltage	volts dc or ac rms	150	300	350	500 (7S-350)	750	1000	1000
Thermal impedance	°C/watt	50	45	30	28	23	16	13
Isolation voltage	volts	1000						
TCR	ppm/° C	WW types, <0R68, 1700ppm; ≥0R68, 200ppm: MO types all values 350ppm						
Resistance Tolerance	%	5(J)						
Standard Values		E24 preferred						
Ambient temperature range	°C	-55 to +155° C						

^{*} Other styles (radial/pluggable); sizes, and 30, 40, 50 W types are available to special order.

Physical Data

Dimensions (mm) and weight (g)						
Туре	L max.	W max.	H max.	f min.	d (±0.1)	Wt. nom.
SQP2	19	8	8	23	0.70	2.2
SQP3	23	9	9	27	0.70	3.5
SQP5	23	11	10	27	0.75	5.0
SQP7	36	11	10	30	0.75	8.2
SQP7S	26	10	10	30	0.75	6.0
SQP10	50	11	11	30	0.75	11.0
SQP15	50	13.5	13.5	30	0.75	17.4
SQP20	61	15.5	14.5	30	0.75	25.0



Packaging

Our standard packaging for SQP Series is bulk pack

General Note

TT electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT electronics' own data and is considered accurate at time of going to print.



Ceramic Case Resistors – Wirewound / Metal Oxide

SQP Series



Construction

A high purity ceramic rod, with force fit end caps onto which is wound a wire element: or a deposited metal oxide film (depending on value). The element is fitted into a ceramic case with fireproof insulation cement.

Termination Details

Material The tinned copper lead wires are internally welded to the resistance element end caps.

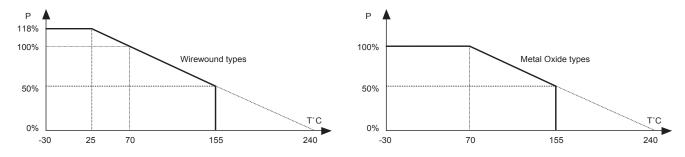
Solderability The terminations meet the requirements of IEC 115-1 Clause 4.17.3.2

Strength The terminations meet the requirements of IEC 86.2.21

Performance Data

		Maximum
Load at rated power (1000hrs at 70°C)	ΔR%	5% +0.05Ω
Derating from rated power at 70°C		See Graph
Short term overload *	ΔR%	2% +0.05Ω
Damp heat steady state (56 days, 40°C, ≥90% RH)	ΔR%	2% +0.05Ω
Temperature rapid change	ΔR%	2% +0.05Ω
Resistance to solder heat	ΔR%	1% +0.05Ω
Pulse handling	•••••	Data available by request

^{*(}Wirewound:: the lower of 5x rated power, or 2.5x LEV for 5 secs. Metal Oxide:: the lower of 6.25x rated power, or 2.5x LEV for 5 secs)



Marking

Type reference, resistance value and tolerance are legend marked onto the upper surface.

Flammability

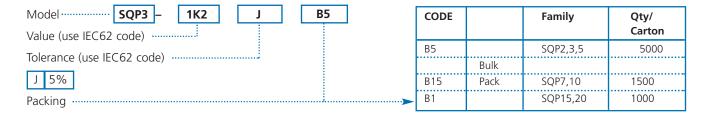
The resistor will not burn or emit incandescent particles under any condition of applied temperature or overload.

Solvent resistance

The body protection and marking are resistant to all normal industrial solvents suitable for printed circuits.

Ordering Procedure

Example: 5,000 SQP3 at 1.2 kilohms and 5% tolerance in standard bulk pack option-



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