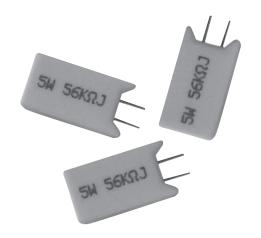
Resistors

Radial Ceramic Case Resistors Wirewound / Metal Oxide

SQM / CVF / CVW Series

- 2 to 10 watts
- Resistance OR1 to 200K
- High overload capability
- Flameproof case
- Small PCB footprint
- RoHS compliant



Electronics



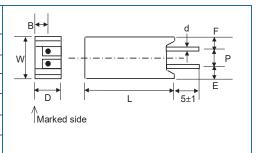
All parts are Pb-free and comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

Electrical Data

			SQM2 / CV-2	SQM3 / CV-3	SQM5 / CV-5	SQM7 / CV-7	SQM10 / CV-10	SQM10A
Power rating at 70°C	W	atts	2	3	5	7	10	10
Resistance range – wirewour	nd (CVW) of	nms	0R1 - 27R	0R1 - 39R	0R1 - 47R	0R1 - 680R	0R1 - 910R	0R1 - 560R
Resistance range – oxide (C\	/F) oł	nms	30R – 33K	43R – 56K	51R – 100K	750R - 200K	1K0 - 200K	
Limiting element voltage	volts dc or ac	rms	150	300	350	500	750	750
Thermal impedance	°C/\	vatt	50	45	30	28	23	23
Isolation voltage	V	olts			10	00		
TCR	ppm	ı/°C			<20R: ± 400,	≥20R: ± 350		
Resistance Tolerance		%			±	5		
Standard Values			E24					
Ambient temperature range °C -55 to +155°C								

Physical Data (all dimensions in mm, weights in g)

Tura	L	W	D	В	Е	F	Р	d	Weight
Туре	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0	±0.05	Nom.
SQM2/CV-2	20	11.5	7.5	4.5	3.0	3.0	5	0.7	4.3
SQM3 / CV-3	25	12.5	8.5	4.5	4.0	4.0	5	0.7	5.6
SQM5 / CV-5	25	12.5	9	5.0	3.5	3.5	5	0.75	6.3
SQM7 / CV-7	38	12.5	9	5.0	2.75	5.0	5	0.75	10.7
SQM10/ CV-10	50	12.5	9	4.25	2.75	5.0	5	0.75	13.4
SQM10A	35	16.0	12	6.0	4.25	4.25	7.5	0.75	13.8



Construction

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

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Termination Details:

Material The 100% Sn finish 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

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

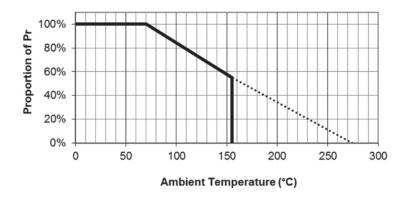
Flammability: The resistor will not burn under any condition of applied temperature or overload.

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

Performance Data

		Maximum
Load at rated power (1000hrs at 70°C)	ΔR	<100K: 5% ≥100K: 10%
Derating from rated power at 70°C		See Graph
short term overload (lesser of 6.25 x Pr or 2.5 x LEV for 5s)	ΔR	5% +0.05Ω
Damp heat steady state (56 days, 40°C, ≥90% RH)	ΔR	5% +0.05Ω
Temperature rapid change (5 cycles -55°C to +155°C)	ΔR	2% +0.05Ώ
Resistance to solder heat	ΔR	1% +0.05Ώ
Voltage Proof (1kV for 60s)		No evidence of flashover, mechanical damage, arcing or insulation breakdown
Solderability		Min. 95% coverage

Temperature Derating



Radial Ceramic Case Resistors Wirewound / Metal Oxide

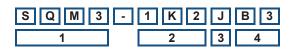


SQM / CVF / CVW Series

Ordering Procedure

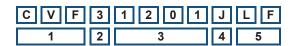
This product has two valid part numbers:

European (Welwyn) Part Number: SQM3-1K2JB3 (SQM3, 1.2 kilohms ±5%, Pb-free)



	1	2	3	4			
	Type	Value	Tolerance	Pac	acking & Termination Finish		
	SQM2, SQM3, SQM5, SQM7 SQM10, SQM10A	E24 = 3/4 characters R = ohms K = kilohms	J = ±5%	Pb-free only			
				В3	SQM2, SQM3	3000/box	
				B2	SQM5	2000/box	
				B1	SQM7, SQM10	1200/box	
				B09	SQM10A	720/box	

USA (IRC) Part Number: CVF31201JLF (CVF3, 1.2 kilohms ±5%, Pb-free)



1	2	3	4	5		
Туре	Size	Value	Tolerance	Termination Finish	Packing	
	2	3 digits + multiplier	$J = \pm 5\%$	LF = Pb-free	2, 3	3000/box
0)/5	3	R = ohms for values			5	2000/box
CVF, CVW	5	<100 ohms			7, 10	1200/box
	7		•			
	10					

Mouser Electronics

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TT Electronics:

SQM10-5K1J SQM5-220RJI SQM7-1K0JB1