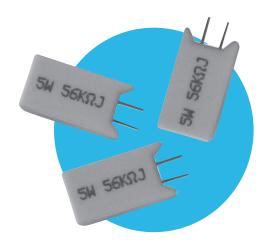
Resistors

Electronics

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



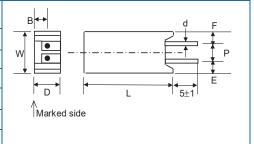
All parts are Pb-free and comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

Electrical Data

		SQM2 / CV-2	SQM3 / CV-3	SQM5 / CV-5	SQM7 / CV-7	SQM10 / CV-10	SQM10A / CV-10
Power rating at 70°C	watts	2	3	5	7	10	10
Resistance range – wirewound (CVW) ohms		0R1 - 27R	0R1 - 39R	0R1 - 47R	0R1 - 680R	0R1 - 910R	0R1 - 560R
Resistance range – oxide (CVF) ohms		30R – 33K	43R – 56K	51R – 100K	750R - 200K	1K0 - 200K	
Limiting element voltage volt	s dc or ac rms	150	300	350	500	750	750
Thermal impedance	°C/watt	50	45	30	28	23	23
Isolation voltage	1000						
TCR	ppm/°C	<20R: ± 400, ≥20R: ± 350					
Resistance Tolerance	%	±5 ±10					
Standard Values		E24					
Ambient temperature range	mbient temperature range °C -55 to +155°C						

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

Туре	L	W ± 1.0	D ± 1.0	B ± 1.0	E ± 1.0	F ± 1.0	P	d	Weight Nom.
	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0	±0.05	NOITI.
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	0.8	6.3
SQM7 / CV-7	38	12.5	9	5.0	2.75	5.0	5	0.8	10.7
SQM10/ CV-10	50	12.5	9	4.25	2.75	5.0	5	0.8	13.4
SQM10A / CV-10	35	16.0	12	6.0	4.25	4.25	7.5	0.8	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.

Radial Ceramic Case Resistors Wirewound / Metal Oxide

SQM / CVF / CVW Series



Termination Details:

Material The 100% Sn finish copper lead wires are internally welded to the resistance element end caps.

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

The terminations meet the requirements of IEC 86.2.21 Strength

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.

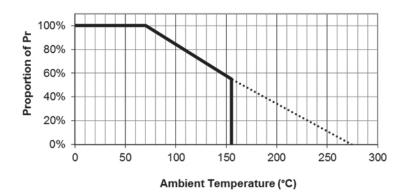
Solvent resistance: The body protection and marking are resistant to all normal industrial solvents suitable for printed

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% +0.05Ώ		
Damp heat steady state (56 days, 40°C, ≥90% RH)	ΔR	5% +0.05Ώ		
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



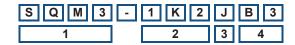
SQM / CVF / CVW Series



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	Packing & Termination Finish			
SQM2, SQM3,	E24 = 3/4 characters R = ohms K = kilohms	J = ±5%	Pb-free only			
SQM5, SQM7 SQM10, SQM10A		K = ±10%	В3	SQM2, SQM3	3000/box	
			B2	SQM5	2000/box	
			B1	SQM7, SQM10	1000/box	
			B09	SQM10A	900/box	

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



1	2	3	4	5		
Type	Size	Value	Tolerance	Termination Finish	Packing	
	2	3 digits + multiplier	$J = \pm 5\%$	LF = Pb-free	2, 3	3000/box
C) /E	3	R = ohms for values <100 ohms	K = ±10%		5	2000/box
CVF, CVW	5				7, 10	1000/box
CVVV	7		•			
	10					

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G05C7R000HB1223 G22041431007J2C000 PW10-39R-5% C142K2JL CA00021R000JE14 RWR81S1000BRB12 RWR81SR427DRB12 RWR81SR619FRBSL RWR89S9310FPB12 93J62RE AC04000002209JAC00 25J39K CP0005330R0JE3191 CPCC03R5000JB31 CPCC0510R00JE32 CPCC051R000JB31 CPCP10500R0JE32 CPW152K500JE313 CA000210R00JE14 RS02B887R0FE73 RWR89S6190FSB12 RWR89SR237FRB12 CPCC03R2000JB31 CPW055R000JB143 CPW103K300JE143 CPW202R000JB14 ULW5-39R0JT075 W31-R47JA1 VP25K-120 VC3D900 65888-3R3 RWR89S4121FRS73 RWR80S10R0FSB12 CB5JB10R0 RWR81S1000FRB12 CP000533R00JE66 RWR84N5360FPB12 VC3D.5 SQM500JB-200R RWR81N49R9FSS70 75822-10R WHS201-68RJA25 W31-1K2JA1 RWR81S20R0FRS73 25W110-BULK 25W156 25W239 25W3D3-BULK 65888-300 135-R47-JBW