

High Precision Resistors

Type KC Series

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The KC Series draws together high power and high precision in one attractively priced silicone coated package. Windings are accurately space wound on ceramic or aluminium oxide cores. Winding pitch is controlled for high winding density to obtain maximum power dissipation by transmitting more heat down the length of the core, thereby lowering the "Hot Spot" temperature. The resistance wire is welded to the end cap using the most advanced electronically controlled D.C. Welders. Where high reliability is required the resistance wire is sandwiched between a weld tab and the end cap to provide the ultimate in reliability. Coated power resistors have high resistance to commonly used solvents.

Key Features

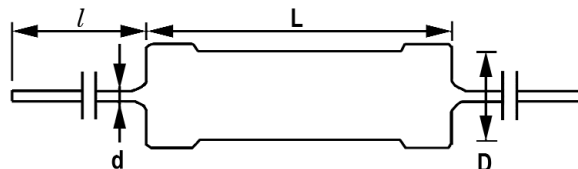
- High Power, Precision & Reliability
- 0.5 Watts up to 14 Watts
- Ayrton Perry Windings Available
- Tolerances to 0.01%
- Low Temperature Coefficient
- 350°C Max Temperature
- Conformally Coated
- High Reliability

Characteristics - Electrical

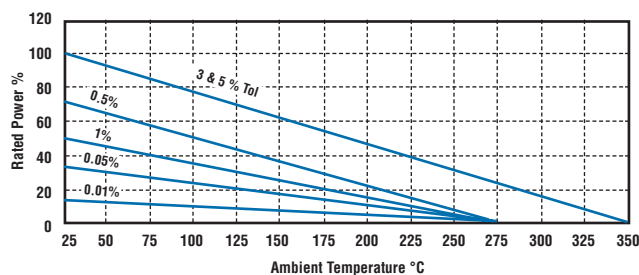
Resistance Values:	R10 to 275K
Resistance Tolerance:	10%, 5%, 3%, 1%, (available to $\pm 0.01\%$ on request)
Rated Dissipation:	0.5 watts to 14 watts
Dielectric Strength:	1KV (All Types)
Insulation Resistance:	1000 Meg Ohms
Terminal Strength:	5lb pull test
Solderability:	Meets MIL - STD - 202
Temperature Coefficient of Resistance:	$\pm 20\text{ppm}/^\circ\text{C}$ - 100R and over $\pm 30\text{ppm}/^\circ\text{C}$ - 10R to 100R $\pm 50\text{ppm}/^\circ\text{C}$ - 1R0 to 10R Closer T.C.'s available. Please ask for quotation
Temperature Range:	-55°C to $+355^\circ\text{C}$.
Environmental Requirements:	Meets or exceeds military specifications

Style	Power Rating (W)	Working Voltage (V)	Maximum Resistance (ohms)	Dimensions			
				L ± 1.7	D ± 0.8	d	l
KC-1/2	1.2	73	4.5K	7.10	2.40	0.50	38.0
KC-1B	1.6	137	12K	13.50	2.40	0.50	38.0
KC-1D	4.5	406	38K	17.80	2.80	0.50	38.0
KC-2B	5.0	444	42K	20.60	4.75	0.80	38.0
KC-2C	3.5	181	32K	12.70	6.35	0.80	38.0
KC-3	5.5	295	45K	15.90	6.35	0.80	38.0
KC-5	6.0	444	90K	22.23	7.90	1.00	38.0
KC-6	6.5	488	95K	25.40	7.90	1.00	38.0
KC-7	8.0	730	100K	30.50	7.90	1.00	38.0
KC-7A	9.0	800	150K	34.90	9.50	1.00	38.0
KC-10A	12.0	1000	275K	45.21	9.50	1.00	38.0

Dimensions



Derating Curve



How to Order

KC	2A	2K0	J	—
Common Part	Package Style	Resistance Value	Tolerance	Packaging
KC - Standard Part NC - Low Inductive Winding	See Table Above	0.1 ohm (100 milli ohm) R10 1 ohm (1000 milli ohm) 1R0 1K ohm (1000 ohm) 1K0	K $\pm 10\%$ J $\pm 5\%$ E $\pm 3\%$ F $\pm 1\%$	— - Bulk B - Bandoliered