

Type KC Series



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

PRODUCT  
PLANNED FOR  
EOL  
  
LTB 18/08/2023

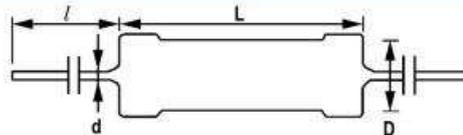
Type KC Series

Characteristics - Electrical

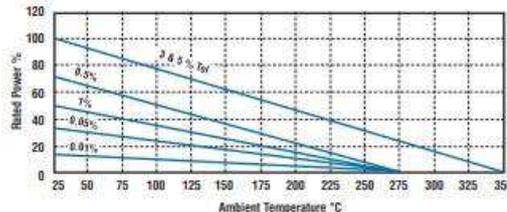
Resistance Values:	R10 to 275K
Resistance Tolerance:	10%, 5%, 3%, 1%, (available to ±0.01% on request)
Rated Dissipation:	0.5 watts to 14 watts
Dielectric Strength:	1KV (All Types)
Insulation Resistance:	1000 Meg Ohms
Terminal Strength:	5lb pull test
Solderability:	Meets MIL - STD - 202
Temperature Coefficient of Resistance:	±20ppm/°C - 100R and over ±30ppm/°C - 10R to 100R ±50ppm/°C - 1R0 to 10R Closer T.C.'s available. Please ask for quotation
Temperature Range:	-55°C to +355°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 KC - 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 ±10% J ±5% E ±3% F ±1%	— - Bulk B - Bandoliered

While TE has made every reasonable effort to ensure the accuracy of the information in this Data Sheet, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this data sheet are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.