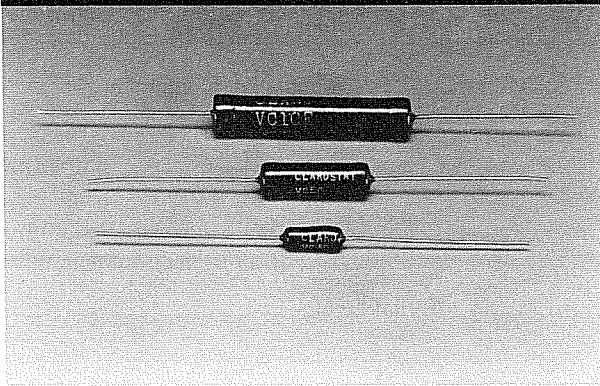


Series VC
3, 5, 10 Watt
 Axial-Lead, Wirewound Resistors



Description

The VC series is a low-cost, high-quality, axial-lead resistor. Its small size makes it excellent for circuit board, point-to-point, or terminal board applications. The VC series is made in accordance to MIL-R-26 standards and is ideal for today's technology.

Features

- Rugged vitreous enamel
- Low cost
- All-welded construction
- Uniformly tinned leads
- Meets or exceeds MIL-R-26 standards
- Non-inductive winding available

Series VC Material Specifications

Coating
 Conformal vitreous enamel

Core
 Ceramic

Terminals
 Tinned leads, solderable to MIL-R-26 standards

Weight

VC3D	VC5E	VC10F
3 watt .032 oz. .896 gms.	5 watt .096 oz. 2.69 gms.	10 watt .224 oz. 6.27 gms.

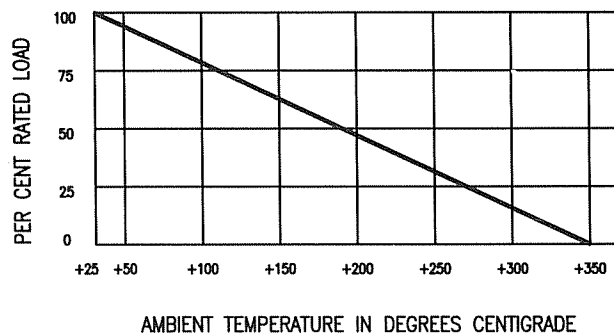
Series VC Electrical Specifications

Resistance Tolerance
 5% standard 1 ohm and up
 ±10% under 1 ohm
 Closer tolerances available.

Power Rating
 Based on 25°C free air rating

Series	Minimum Wattage	Maximum Wattage
VC3D	3.0	3.25
VC5E	5.0	6.50
VC10F	10.0	11.00

Figure 1
Series VC Derating



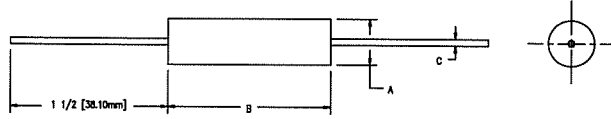
Overload
 Under 5 watts, 5 times rated wattage for 5 seconds.
 5 watts and over, 10 times rated wattage for 5 seconds.

Temperature Coefficient
 ±150 ppm (closer TC available)

Dielectric Withstanding Voltage
 500 Vac

Figure 2

Series VC Dimensions



	A	B	C
VC3D			
inches	.219	.531	.032
mm	5.56	13.49	.813
VC5E			
inches	.313	1.063	.036
mm	7.95	27.00	.914
VC10F			
inches	.375	1.813	.036
mm	9.52	46.05	.914

Dimensional Tolerance: ± 0.013 in. (.795 mm)

Series VC Standard Resistance Values

Stock Values

3.25 WATT		VC3D			
.1	10	68	390	1.25K	5K
.13	12	75	400	1.5K	5.6K
.15	15	82	450	1.75K	6K
.2	18	100	470	1.8K	6.8K
.25	20	120	500	2K	7K
.3	22	125	560	2.2K	7.5K
.33	25	150	600	2.25K	8K
.5	27	180	680	2.5K	8.2K
.75	30	200	700	2.7K	9K
1	33	220	750	3K	10K
1.5	35	225	800	3.3K	
2	39	250	820	3.5K	
3	40	270	900	3.9K	
4	47	300	1K	4K	
5	50	330	1.1K	4.5K	
7.5	56	350	1.2K	4.7K	

6.5 WATT		VC5E			
.1	12	75	450	1.8K	7K
.13	15	82	470	2K	7.5K
.15	18	100	500	2.2K	8K
.2	20	120	560	2.25K	8.2K
.25	22	125	600	2.5K	9K
.3	25	150	680	2.7K	10K
.33	27	180	700	3K	12.5K
.5	56	200	750	3.3K	15K
.75	30	220	800	3.5K	17.5K
1	33	225	820	3.9K	18K
1.5	35	250	900	4K	20K
2	39	270	1K	4.5K	22K
3	40	300	1.1K	4.7K	22.5K
4	47	330	1.2K	5K	25K
5	50	350	1.25K	5.6K	
7.5	56	390	1.5K	6K	
10	68	400	1.75K	6.8K	

Standard Resistance Values continued, next column

11 WATT **VC10F**

.1	18	150	750	3.9K	15K
.13	20	180	800	4K	16K
.15	22	200	820	4.5K	17.5K
.2	25	220	900	4.7K	18K
.25	27	225	1K	5K	20K
.3	30	250	1.1K	5.6K	22K
.33	33	270	1.2K	6K	22.5K
.50	35	300	1.25K	6.8K	25K
.75	39	330	1.5K	7K	27K
1	40	350	1.75K	7.5K	30K
1.5	47	390	1.8K	8K	33K
2	50	400	2K	8.2K	35K
3	56	450	2.2K	8.5K	39K
4	68	470	2.25K	9K	40K
5	75	500	2.5K	10K	45K
7.5	82	560	2.7K	11K	47K
10	100	600	3K	12K	50K
12	120	680	3.3K	12.5K	
15	125	700	3.5K	13.5K	

Notes:

Standard packaging: 10 pieces per pack.

Tape and reel available.

Special resistance values available.

Non-inductive winding available.

For specials, please consult Factory.

Series VC How To Order

Series/Wattage + Resistance = Part number

Example:

3 watt + 10K ohm = VC3D-10K