

Wirewound Resistors, Commercial Power, Vitreous Coated, Capacitor Mount



FEATURES

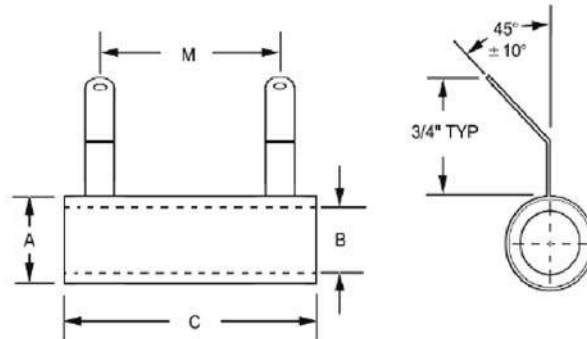
- High temperature vitreous coating
- Mounts directly onto the terminal studs of three popular sizes of capacitawece without additional leads or terminals.
- Extra long terminals keep damaging heat away from the capacitor terminals
- Available in non-inductive style (special "NI") with Ayrton-Perry winding
- Material categorization:
for definitions of compliance please see www.vishay.com/doc?99912



STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING $P_{25\text{ }^\circ\text{C}}$ W	RESISTANCE RANGE Ω	TOLERANCE $\pm \%$	WEIGHT (typical) g
CMV16	CMV-16	16	1.0 to 59K	5, 10	7.5
CMV20	CMV-20	20	1.0 to 95K	5, 10	8.64
CMV22	CMV-22	22	1.0 to 105K	5, 10	8.64

GLOBAL PART NUMBER INFORMATION																
Global Part Numbering example: CMV16CME20K00JE (visit www.vishay.net SAP parts manual for all options)																
C	M	V	1	6	C	M	E	2	0	K	0	0	J	E		
GLOBAL MODEL (5 digits)	TERMINAL DESIGNATION (2 digits)	TERMINAL FINISH (1 digit)	VALUE (5 digits)		TOLERANCE (1 digit)	PACKAGING CODE (1 digit)	SPECIAL (up to 2 digits)									
CMV16 CMV20 CMV22	CA CM	E = lead (Pb)-free	R = decimal K = thousand 1R500 = 1.5 Ω 1K500 = 1.5 k Ω		J = $\pm 5 \%$ K = $\pm 10 \%$	E = Lead (Pb)-free cell and bulk pack	(Dash number) From 1 to 99 as applicable NI = non-inductive									
Historical Part Number example: CMV-16-20K-5 %																
CMV-16			20 k Ω			5 %										
HISTORICAL MODEL			RESISTANCE VALUE			TOLERANCE										

APPLICATION PHOTOS

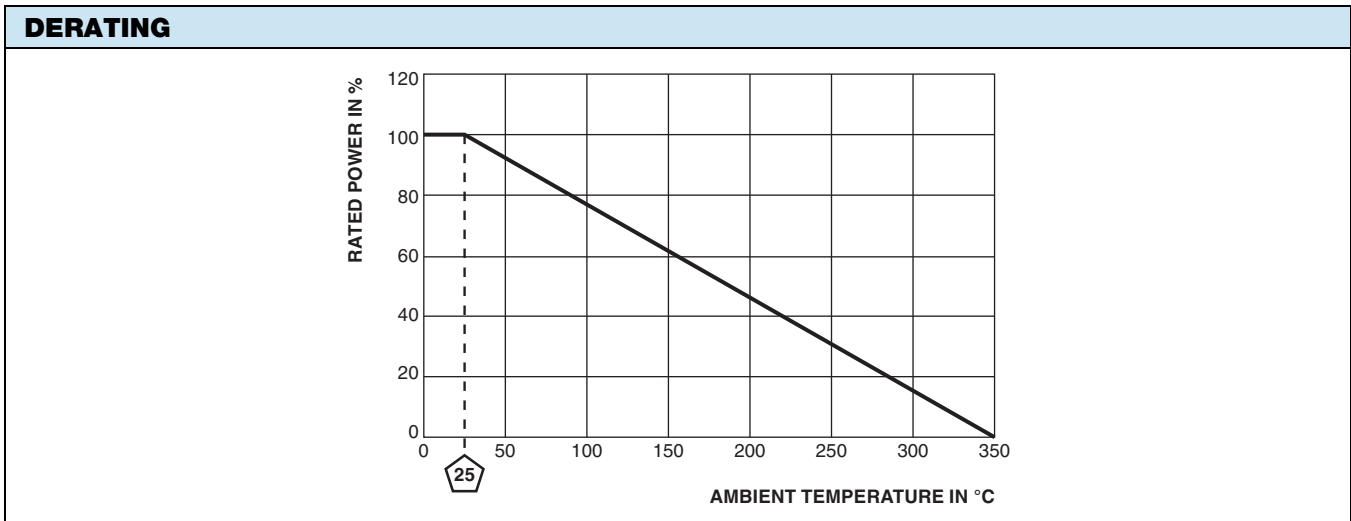
DIMENSIONS in inches [millimeters]


MODEL	CORE DIMENSIONS				TERMINAL DESIGNATION	
	A TYPICAL	B ± 0.031 [0.79]	C ± 0.062 [± 1.59]	M ± 0.0118 [0.3]	CM HOLE DIAMETER TYPICAL	CA HOLE DIAMETER TYPICAL
CMV16	0.562 [14.29]	0.312 [7.94]	1.25 [31.75]	0.875 [22.22]	0.197 [5.00]	0.265 [6.73]
CMV20	0.562 [14.29]	0.312 [7.94]	1.750 [44.45]	1.125 [28.58]	0.197 [5.00]	0.265 [6.73]
CMV22	0.562 [14.29]	0.312 [7.94]	1.750 [44.45]	1.250 [31.75]	0.197 [5.00]	0.265 [6.73]



TECHNICAL SPECIFICATIONS		
PARAMETER	UNIT	RESISTOR CHARACTERISTICS
Power Rating	W	16 to 22
Resistance Range	Ω	1 to 105k
Resistance Tolerance	%	5
Temperature Coefficient	ppm/ $^{\circ}$ C	± 260 for 20 Ω and above, ± 400 for 1 Ω to 19.99 Ω
Operating Temperature	$^{\circ}$ C	-55 $^{\circ}$ C to 350 $^{\circ}$ C
Temperature Rise	$^{\circ}$ C	325 $^{\circ}$ C above an ambient of 25 $^{\circ}$ C
Maximum Altitude	f.a.s.l.	10 000
Short-Term Overload	-	10x rated power for 5 s
Surge Windings	-	Available
Maximum Working Voltage	-	$(P \times R)^{0.5}$
Insulation Resistance	Ω	1M
Dielectric Voltage	V_{RMS}	1000 V_{AC}
Creepage	-	Varies by wattage, see "Terminal Setback" in Dimensions table
Terminal Sleeves	-	n/a
Inductance	μ H	Varies by wattage and resistance
Non-Inductive Winding	-	Available
Terminal Strength	lb	10 lbs
Electrical or Mechanical Customization	-	Contact factory: ww2dresistors@vishay.com

MATERIAL SPECIFICATIONS	
Element	Copper-nickel alloy or nickel-chrome alloy, depending on resistance value
Core	Cordierite, steatite
Coating	Special high temperature vitreous enamel
Standard Terminals	Tinned alloy 42
Optional Terminals	Alloy 42
Terminal Bands	Alloy 42
Part Marking	HEI, model, wattage, value, tolerance, date code





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