Vishay Huntington

Wirewound Resistors, Commercial Power, Silicone Coated, Capacitor Mount



FEATURES

- · High temperature silicone coating
- · Mounts directly onto the terminal studs of three popular sizes of capacitance 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 °C} W	RESISTANCE RANGE Ω	TOLERANCE ± %	WEIGHT (typical) g
CMS16	CMS-16	16	1.0 to 59K	5, 10	7.5
CMS20	CMS-20	20	1.0 to 95K	5, 10	8.64
CMS22	CMS-22	22	1.0 to 105K	5, 10	8.64

GLOBAL PART NUMBER INFORMATION						
Global Part Numb	Global Part Numbering example: CMS16CME20K00JE (visit www.vishay.net SAP parts manual for all options)					
C M S 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)
CMS16 CMS20	CA CM	E = lead (Pb)-free	R = decimal K = thousand	J = ± 5 % K = ± 10 %	E = Lead (Pb)-free cell and bulk pack	(Dash number) From 1 to 99 as
CMS22			1R500 = 1.5 Ω 1K500 = 1.5 kΩ			applicable NI = non-inductive
Historical Part Number example: CMS-16-20K-5 %						
CMS-16			20 kΩ		5 %	
HISTORICAL MODEL		RESISTANCE VALUE		TOLE	TOLERANCE	

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RoHS

COMPLIANT HALOGEN

FREE

<u>GREEN</u> (5-2008)

CMS



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APPLICATION PHOTOS



DIMENSIONS in inches [millimeters]

		CORE DIM	TERMINAL DESIGNATION			
MODEL	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
CMS16	0.562	0.312	1.25	0.875	0.197	0.265
	[14.29]	[7.94]	[31.75]	[22.22]	[5.00]	[6.73]
CMS20	0.562	0.312	1.750	1.125	0.197	0.265
	[14.29]	[7.94]	[44.45]	[28.58]	[5.00]	[6.73]
CMS22	0.562	0.312	1.750	1.250	0.197	0.265
	[14.92]	[7.94]	[44.45]	[31.75]	[5.00]	[6.73]

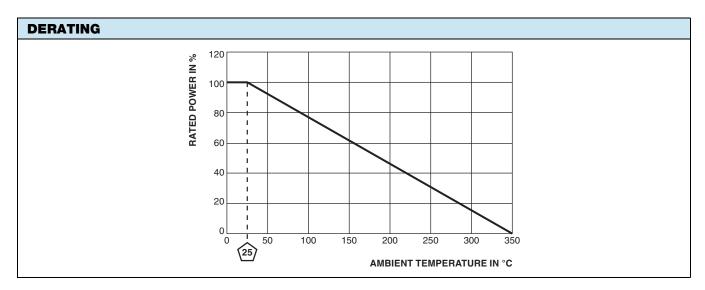
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TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	RESISTOR CHARACTERISTICS		
Power Rating	W	16 to 22		
Resistance Range	Ω	1 to 105k		
Resistance Tolerance	%	5		
Temperature Coefficient	ppm/°C	\pm 260 for 20 Ω and above, \pm 400 for 1 $\Omega~$ to 19.99 Ω		
Operating Temperature	°C	-55 °C to 350 °C		
Temperature Rise	°C	325 °C above an ambient of 25 °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 x R) ^{0.5}		
Insultation 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	μH	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 silicone			
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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Document Number: 31843



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