

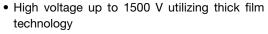
www.vishay.com

Vishay Techno

Molded Divider, High Voltage or High Precision, Surface Mount



FEATURES





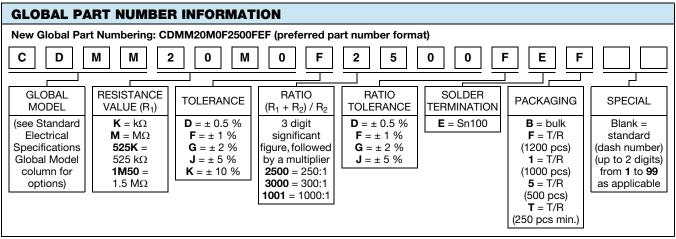
 Precision to ± 0.5 % with low TCR tracking to 25 ppm/°C utilizing thick film technology ROHS COMPLIANT HALOGEN FREE

- Sulfur resistant
- · Automotive compliant terminations
- AEC-Q200 qualified
- · Wide range of resistance value and ratios
- 12.5 mm creepage distance. Rated 1250 V per IEC 60664-1
- PATENT(S): <u>www.vishay.com/patents</u>
- Material categorization: for definitions of compliance please see <u>www.vishav.com/doc?99912</u>

STANDARD ELECTRICAL SPECIFICATIONS									
GLOBAL MODEL	CASE SIZE	POWER RATING P _{70°C} W	MAXIMUM WORKING VOLTAGE (1) V	$\begin{array}{c} \textbf{RESISTANCE} \\ \textbf{RANGE} \\ \textbf{R_1} \\ \Omega \end{array}$	TOLERANCE (3) R ₁ ± %	RATIO RANGE (R ₁ + R ₂) / R ₂	RATIO TOL. ± %	TEMPERATURE COEFFICIENT ⁽⁴⁾ (-55 °C to +125 °C) ± ppm/°C	TCR TRACKING ± ppm/°C
CDMM	4527	1.5	1500	500K to 50M ⁽²⁾	0.5, 1, 2, 5, 10	100:1 to 700:1	0.5, 1, 2, 5	100	25 - 50

Notes

- (1) Continuous working voltage shall be $\sqrt{P \times R}$ or maximum working voltage, whichever is less
- (2) Resistance value is calibrated at 100 V_{DC}
- (3) Contact factory for tighter tolerances
- (4) Reference only: Not for all values specified. Consult factory for your value



Notes

- Contact factory for other ratios
- For additional information on packaging, refer to the Surface Mount Resistor Packaging document (<u>www.vishay.com/doc?31543</u>)

PATENT(S): www.vishay.com/patents

This Vishay product is protected by one or more United States and international patents.



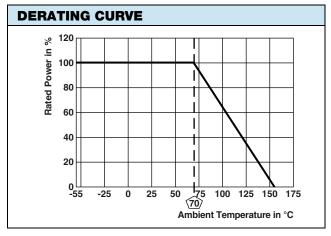
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VOLTAGE AND TEMPERATURE COEFFICIENTS OF RESISTANCE CHART (TYPICAL)					
GLOBAL MODEL	RESISTANCE Ω	RATIO (TYPICAL)	VCR ppm/V	TCR (-55 °C to +125 °C) ppm/°C	
	500K	200:1	10	100	
CDMM	15M	250:1	10	100	
	50M	300:1	10	150	

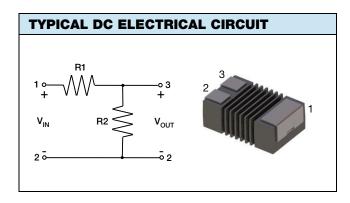
Note

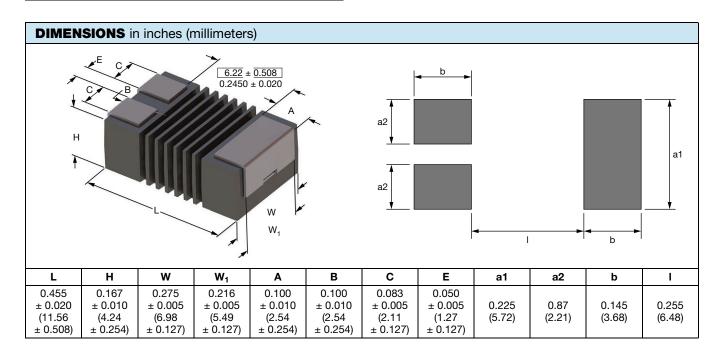
· Contact factory for other ratios



MECHANICAL SPECIFICATIONS					
Resistive element	Ruthenium oxide (thick film)				
Encapsulation	Molded thermoplastic				
Substrate	Alumina				
Termination	Solder-coated bronze				

ENVIRONMENTAL SPECIFICATIONS					
Operating temperature	-55 °C to +155 °C				







CDMM

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PERFORMANCE				
TEST	CONDITIONS OF TEST	TEST LIMITS		
Thermal shock	-55 °C to +150 °C, 1000 cycles, 15 min at each extreme	± 0.5 % ΔR		
Short time overload	2.5 x rated power for 5 s	± 0.5 % ΔR		
Low temperature storage	-55 °C for 24 h	± 0.5 % ΔR		
High temperature exposure	1000 h at 155 °C	± 0.5 % ΔR		
Biased humidity	+85 °C, 85 % RH, 10 % rated power ⁽¹⁾ , 1000 h	± 0.5 % ΔR		
Mechanical shock	100 g's for 11 ms, 5 pulses	± 0.5 % ΔR		
Vibration	Frequency varied 10 Hz to 500 Hz in 1 min, 3 directions, 9 h	± 0.5 % ΔR		
Load life	1000 h at rated power, +70 °C, 1.5 h "ON", 0.5h "OFF"	± 1.0 % ΔR		
Resistance to solder heat	+260 °C solder, 10 s to 12 s dwell, 25 mm/s emergence	± 0.5 % ΔR		

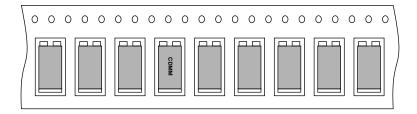
Note

 $^{^{(1)}}$ Applied voltage is based on the critical resistance value, not to exceed 500 V

PACKAGING						
MODEL	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE		
		ic 330 mm / 13"	1200	EF		
СРММ	04 mm / ambassad plastic		1000	E1		
CDIVIN	24 mm / embossed plastic		500	E5		
			250	ET		

Note

• Embossed carrier tape per EIA-481



The above image shows the orientation of the parts in the reel

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