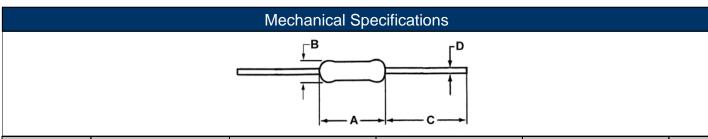
Features:

- Specialized materials, processes and controls ensure a part that is impervious to moisture
- Small size with high power density
- Auto sequencing / insertion capable
- Low cost replacement in many applications using metal glaze resistors
- RoHS compliant / lead-free

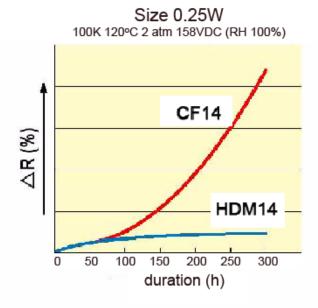


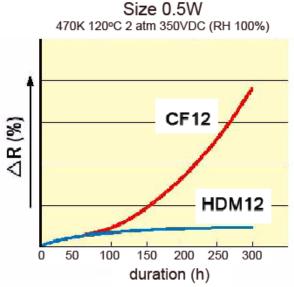
Electrical Specifications							
Type/Code	Power Rating (Watts) @ 70°C	Maximum Working	Maximum Overload	Ohmic Range (Ω) and Tolerance			
		Voltage (1)	Voltage	1%, 2%, 5%			
HDM14	0.25W	300V	600V	1 - 2.2M			
HDM12	0.5W	350V	700V	1 - 2.21VI			

⁽¹⁾ Lesser of √PR or maximum working voltage.



Type/Code	А	В	С	D	Unit
	Body Length	Body Diameter	Lead Length (Bulk)	Lead Diameter	Orac
HDM14	0.126 + 0.008 /- 0 3.20 + 0.20 /- 0		1.102 ± 0.118 28.00 ± 3.00	0.018 ± 0.002 0.45 ± 0.05	inches mm
HDM12	0.236 ± 0.012 6.00 ± 0.30	0.094 ± 0.008 2.40 ± 0.20	1.102 ± 0.118 28.00 ± 3.00	0.024 ± 0.001 0.60 ± 0.02	inches mm





Performance Characteristics						
Test	Performance or Quality Acceptance	Test Condition and Method				
TCR - Temperature Coefficient of Resistance	R < 100KΩ: -500 ~ +350ppm/°C 100KΩ ≤ R < 1MΩ: -700 ~ 0ppm/°C R ≥ 1MΩ: -1500 ~ 0ppm/°C	Measure resistance (R0) at room temperature (t), after that, measure again the resistance (R) at 100° C higher than room temperature. $TCR = \frac{R - R_0}{R_0} \times \frac{10^{\circ}}{(t + 100) - t} \text{ (ppm/°C)}$				
Overload (Short Time)	Change of resistance $\leq \pm (0.75\% + 0.05\Omega)$	Apply the 2.5 times rated voltage or max overload voltage whichever is lower for 5 seconds and leave in room temperature for one hour after test.				
Damp heat (Steady State)	Change of resistance $R < 100K\Omega: \le \pm (3\% + 0.05\Omega)$ $R \ge 100K\Omega: \le \pm (5\% + 0.05\Omega)$	In the chamber having temperature 40±2°C and relative humidity 93±3%, apply one percent of the power rating, 1.5 hour ON, 0.5 hour OFF for 1000 hours and leave in room temperature for one hour after test.				
Load Life	Change of resistance R < 100KΩ: \leq ±(2% + 0.05Ω) R \geq 100KΩ: \leq ±(3% + 0.05Ω)	At 70±2°C, apply rated DC voltage 1.5 hour ON, 0.5 hour OFF for 1000 hours and leave in room temperature for one hour after test.				
Pressure Cooker Bias Test	Change of resistance $\leq \pm (20\% + 0.05\Omega)$	121°C, 2atm, 98-100% R.H. Apply the rated DC voltage for 100 hours.				

Reference standards: JIS C5201-1, IEC60115-1

