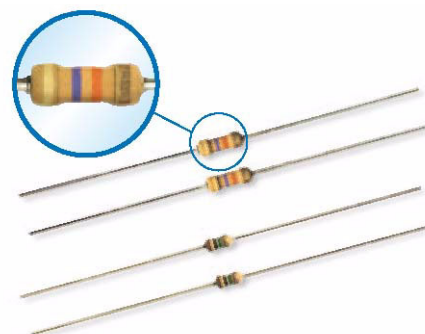


HDM Series — Moisture Resistant Carbon Film Resistors



Features

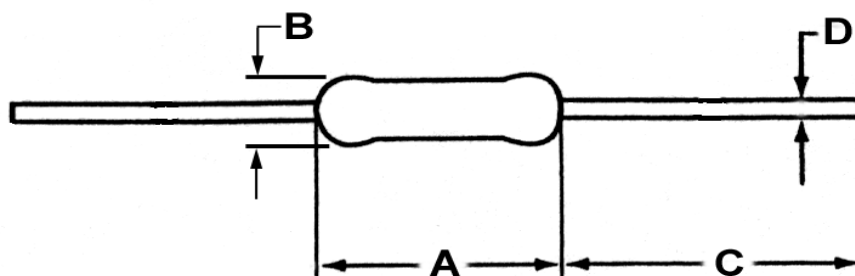
- Specialized materials, and processes and controls ensure a part that is impervious to moisture.
- Small size with high power density
- Auto sequencing / insertion capable
- Low cost replacement in many applications using metal glaze resistors
- RoHS compliant / lead-free



Electrical Specifications

Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage*	Maximum Pulse Voltage	Ohmic Range and Tolerance
				1%, 2%, 5%
HDM 1/4	0.25W	300V	600V	1.0Ω – 2.2MΩ
HDM 1/2	0.50W	350V	700V	1.0Ω – 2.2MΩ

* Lesser of $\sqrt{PR}$ or maximum working voltage.

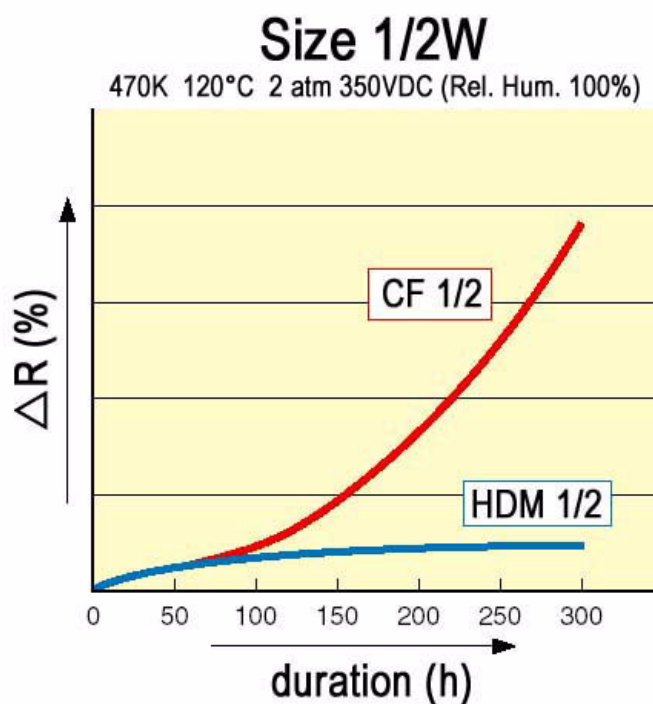
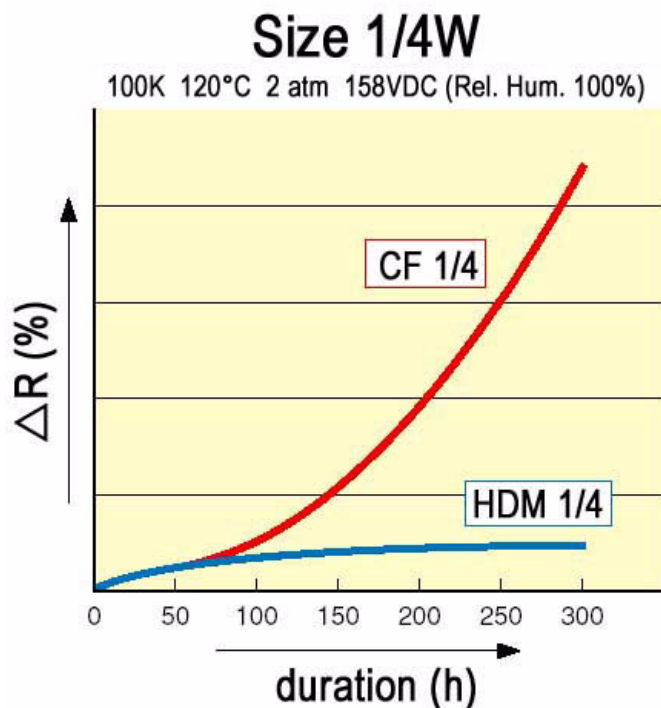


Mechanical Specifications

Type / Code	A Body Length	B Body Diameter	C Lead Length (Bulk)	D Lead Diameter	Units
HDM 1/4	0.13 ± 0.01/-0	0.07 ± 0.01	1.10 ± 0.12	0.018 ± 0.002	inches
	3.20 ± 0.20/-0	1.80 ± 0.20	28.0 ± 3.00	0.45 ± 0.05	mm
HDM 1/2	0.24 ± 0.02	0.09 ± 0.01	1.10 ± 0.12	0.024 ± 0.002	inches
	6.00 ± 0.30	2.40 ± 0.20	28.0 ± 3.00	0.60 ± 0.02	mm

How to Order

HDM		1/2	4.7K		5%	R			
SEI Type		Code	Nominal Resistance		Tolerance	Packaging			
Type	Description	Code	Wattage	Tolerance	Values	SEI Types	Qty	Description	Code
HDM	Moisture Resistant Carbon Film	1/4	0.25W	1%	E24	All	5,000	Tape	R
		1/2	0.50W	2%				Ammo	T
				5%		All	1,000	Bulk	A



Performance Characteristics		
Test	Standard / Method	Requirement
High Temperature, Humidity, Pressure Bias Test	120°C, 2 atm., >98% R. H., Rated DC voltage for 100 hours	± 10%
Short Time Overload	EIA-RS-172-B 3.2.6	± 0.75%
Resistance to Solder Heat	MIL-STD 202, Method 210	± 0.50%
Dielectric Withstanding Voltage	JIS C 5202 5.6	± 0.50%
Load Life	MIL-STD 202, Method 108	± 1.00%
Temperature Cycle	JIS.C.5202.7.4	± 1.00%