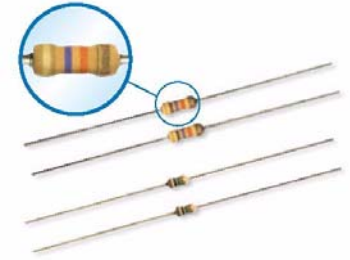
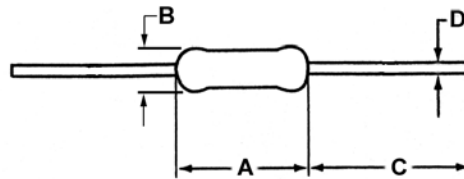


- Features:
- Specialized materials, processes and controls ensure a part that is impervious to moisture
  - Small size with high power density
  - Auto sequencing / insertion capable
  - Low cost replacement in many applications using metal glaze resistors
  - RoHS compliant / lead-free

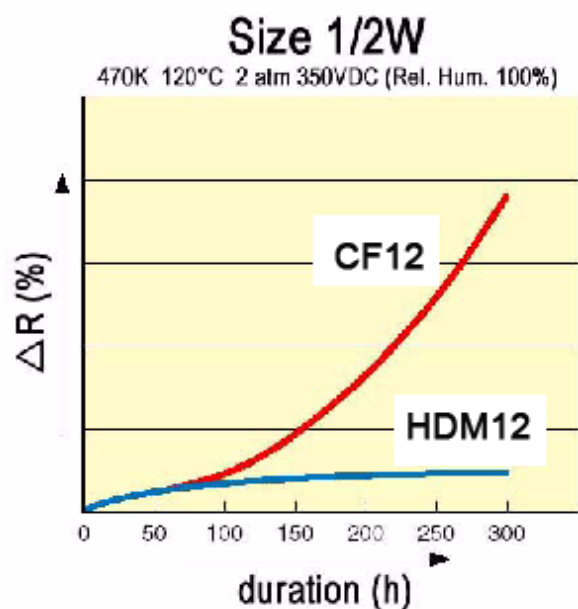
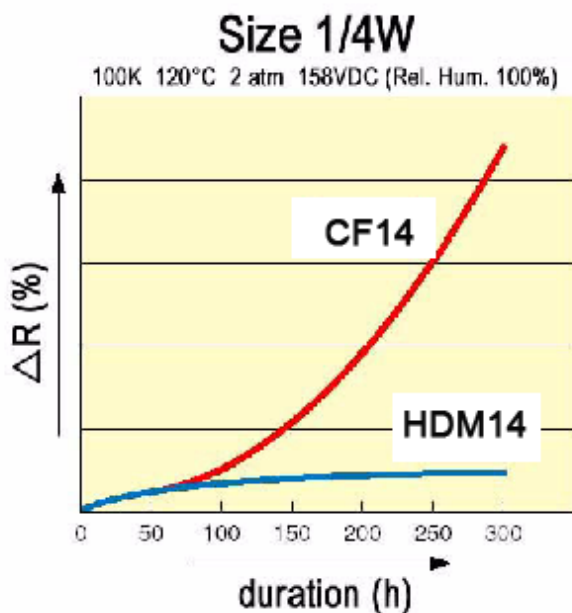


Electrical Specifications				
Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage (1)	Maximum Overload Voltage	Ohmic Range (Ω) and Tolerance
				1%, 2%, 5%
HDM14	0.25W	300V	600V	1 - 2.2M
HDM12	0.5W	350V	700V	1 - 2.2M

(1) 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	Unit
HDM14	0.13 ± 0.01/-0	0.07 ± 0.01	1.1 ± 0.12	0.018 ± 0.002	inches
	3.2 ± 0.2/-0	1.8 ± 0.2	28.0 ± 3.0	0.45 ± 0.05	mm
HDM12	0.24 ± 0.02	0.09 ± 0.01	1.1 ± 0.12	0.024 ± 0.002	inches
	6.0 ± 0.3	2.4 ± 0.2	28.0 ± 3.0	0.6 ± 0.02	mm



Performance Characteristics		
Test	Standard / Method	Requirement
High temperature, humidity, pressure bias test	120°C, 2atm., >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	±0.5%
Dielectric withstanding voltage	JIS C 5202 5.6	±0.5%
Load life	MIL-STD 202, Method 108	±1%
Temperature cycle	JIS C 5202 7.4	±1%

**How to Order**

1      2      3      4      5      6      7      8      9      10      11

H
D
M
1
2
J
T
4
K
7
0

Product Series		Size	Power Rating	Tolerance		Code	Description	Size	Quantity	Resistance Value
HDM	Moisture Resistant Carbon Film	14	0.25W	Code	Tol	T	tape and reel	all sizes	5,000	Four characters with the multiplier used as the decimal holder.  1 ohm = 1R00 10 Kohm = 10K0 2.2 Mohm = 2M20
		12	0.5W	F	1%	A	ammo	all sizes	5,000	
G	2%	B	bulk	all sizes	1,000					
J	5%									

Legacy Part Number (before January 3, 2011):

SEI Type		Code		Nominal Resistance	Tolerance	Packaging				
<b>HDM</b>		<b>1/2</b>		<b>4.7K</b>	<b>5%</b>	<b>R</b>				
Type	Description	Code	Wattage		Tolerance	Values	Types	Qty	Description	Code
HDM	Moisture Resistant Carbon Film	1/4	0.25W		E24		All	5,000	Tape and Reel	R
		1/2	0.5W	Ammo					T	
All	1,000	Bulk	A							