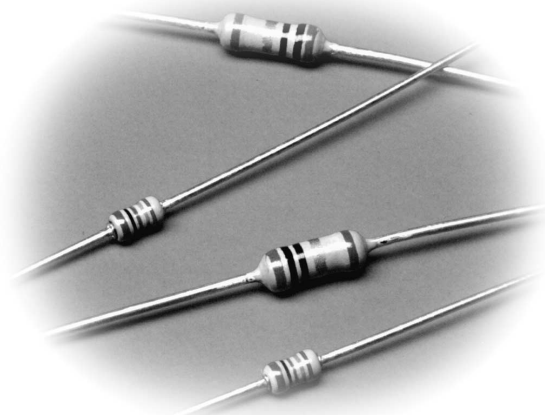
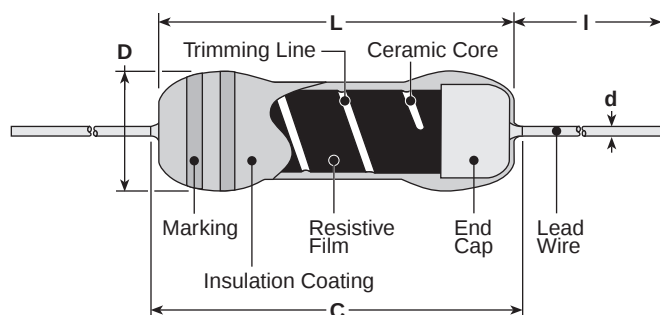




features

- Two times the power rating of the standard body size
- Suitable for automatic machine insertion
- Marking: Blue-gray body color with color-coded bands

dimensions and construction



Type	Dimensions inches (mm)				
	L (ref.)	C (max.)	D	d	I
MFS1/4	.126 (3.2)	.165 (4.2)	.067±.008 (1.7±0.2)	.018±.002 (0.45±0.05)	1.18±.118 (30.0±3.0)
MFS1/2	.248 (6.3)	.280 (7.1)	.091±.012 (2.3±0.3)	.024±.002 (0.6±0.05)	

ordering information

Old Part #	SN2C, MS5OSS	D	1001	F	T52			
	Type	T.C.R.	Resistance	Tolerance	Packaging			
New Part #	MFS	1/4	D	L	T52	R	1001	F
	Type	Power Rating	T.C.R.	Termination Material	Taping and Forming	Packaging	Nominal Resistance	Tolerance
		1/4: 0.25W 1/2: 0.5W	C: ±50 D: ±100	L: SnPb C: SnCu	1/4: T52, T26, VT, MT, M, U 1/2: VTP, VTE, T52, T26	A: Ammo R: Reel	3 significant figures + 1 multiplier "R" indicates decimal on value <10Ω	D: ±0.5% F: ±1.0%

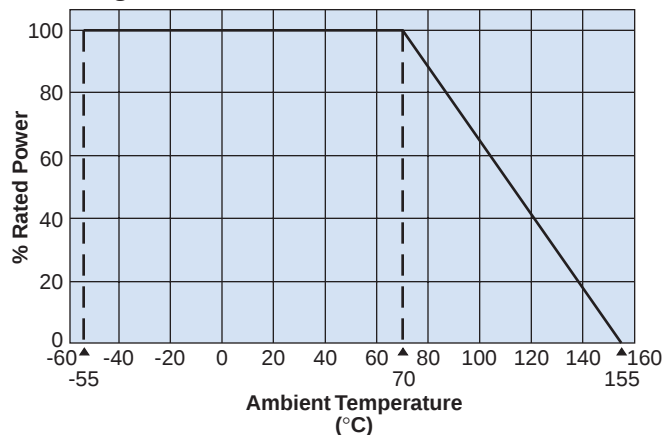
For further information on packaging, please refer to Appendix C.

applications and ratings

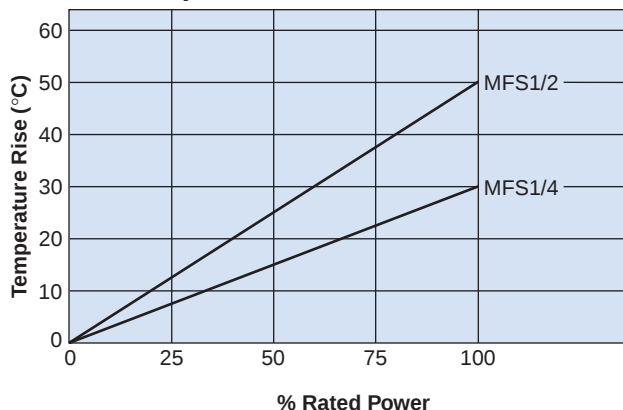
Part Designation	Power Rating @ 70°C	Minimum Dielectric Withstanding Voltage	Resistance Range E-24, E-96		Absolute Maximum Working Voltage	Absolute Maximum Overload Voltage	Operating Temperature Range
			(F $\pm$ 1%)	(D $\pm$ 0.5%)			
MFS1/4	0.25W	500V	10 Ω - 1.0M Ω	49.9 - 562K	250V	500V	-55°C to +155°C
MFS1/2	0.50W		10 Ω - 2.21M Ω	—	350V	700V	

environmental applications

Derating Curve



Surface Temperature Rise



Performance Characteristics

Parameter	Requirement $\Delta R \pm(\% + 0.05\Omega)$		Test Method
	Limit	Typical	
Resistance	Within regulated tolerance	—	25°C
T.C.R.	Within specified T.C.R.	—	+25°C/-55°C and +25°C/+125°C
Overload	0.5	0.3	Rated voltage x 2.5 or maximum overload voltage for 5 seconds, whichever is less
Resistance to Solder Heat	0.75	0.4	260°C $\pm$ 5°C for 10 seconds $\pm$ 1 second
Rapid Change of Temperature	1.0	0.3	-55°C (30 minutes)/+155°C (30 minutes), 5 cycles
Moisture Resistance	1.5	1.0	40°C $\pm$ 2°C, 90 - 95% RH, 1000 hours, 1.5 hour ON, 0.5 hr OFF cycle
Endurance @ 70°C			70°C $\pm$ 2°C, 1000 hours, 1.5 hour ON, 0.5 hr OFF cycle
High Temperature Exposure	1.0	0.5	+125°C, 100 hours