

CARBON FILM RESISTORS



TYPE
R08, R-25
R-50, R-100, R-200

- Power dissipations of 1/8, 1/4, 1/2, 1W, 2W
- Available in Tape/Reel, Tape/Box and Bulk

ELECTRICAL SPECIFICATIONS

All measurements are taken at +25° at 1KHz and 65% relative humidity, unless otherwise stated.

INTRODUCTION

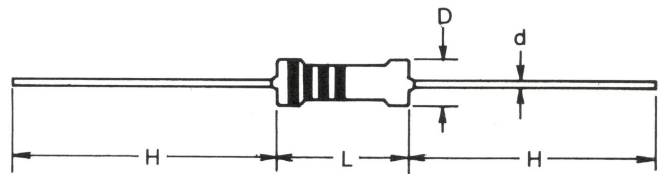
Billions of products are already in use worldwide in all types of applications—from process control instrumentation to telephone receivers and FM radio to color television.

The secret is in a proprietary production system and baking by a uniquely designed and automated production technique. Years of experience in making raw materials and production machinery prove the unique quality and high reliability of these products. They meet—or far exceed—such specifications as EIA RS196A, JIS-C-6402 and IEC-115.

FEATURES

- Industry's lowest cost!
- Delivery from stock in bulk, taped, and strip pack!
- Exceptional long-term stability
- Exceeds carbon comp MIL-R-11 performance
- Standard tolerances: ±2.%, ±5.% (±1.% available)
- Variety of packaging—bulk, strip pack, 26mm and 52mm tape and reel, cut and formed, or radial Panasert/Avisert

DIMENSIONS (mm)



GENERAL SPECIFICATIONS

TYPE	DIMENSION (mm)				POWER RATING	MAXIMUM WORKING VOLTAGE	MAXIMUM OVERLOAD VOLTAGE	RESISTANCE RANGE	
	L	D	H	d				+ -2%(G)	+ -5%(J)
R 08	3.8±0.2	1.5±0.2	28±2	0.45	1/8W	200	400	10Ω—470K	1Ω—22M
R 25	6.5±0.5	2.3±0.3	28±2	0.60	1/4W	250	500	1Ω—10M	0.5Ω—22M
R 50	9.5±0.5	3.2±0.5	28±2	0.60	1/2W	350	700	1Ω—10M	0.5Ω—22M
R 100	12±1.0	4.5±0.5	37±3	0.80	1W	500	1000	1Ω—10M	0.5Ω—22M
R 200	16±1.0	5.5±0.5	37±3	0.80	2W	500	1000	1Ω—10M	0.5Ω—22M

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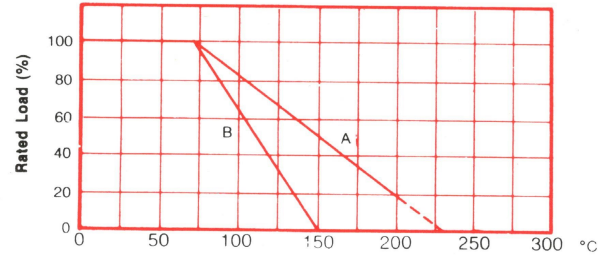
Email: sales@lvelectronics.com



CHARACTERISTICS

Terminal Strength	no damage. $\Delta R_{max} \pm 0.5\%$ or 0.5Ω
Soldering	good tining no damage, $\Delta R_{max} \pm 0.5\%$ or 0.5Ω
Temperature Cycling	$\Delta R_{max} \pm 1\%$
Vibration	no damage $\Delta R_{max} \pm 0.5\%$ or 0.5Ω
Moisture Resistance	ΔR_{max} . 5%
Load Life	ΔR_{max} . 3%
Temperature Coefficient	See Fig. 4
Dielectric Strength	2x Work. Volt no breakdown ΔR_{max} . 0.5%
Noise	See Fig 5
Insulation Resistance	min $10^{10}\Omega$
Short-time Overload	ΔR_{max} . 1%
Voltage Coefficient	< 5 ppm
Resistance to Solvents	no damage

FIG. 3 Derating Curve



The curve B is for FR-12, FR-25, FR-50
The curve A is for FR-100, FR-200

FIG. 4 Temperature Coefficient

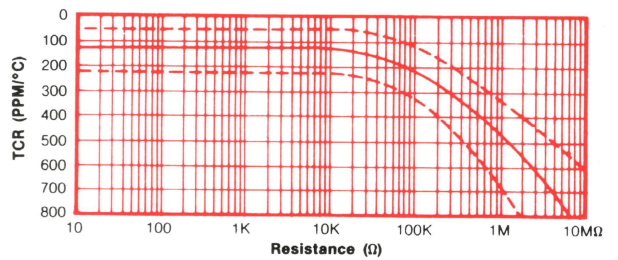


FIG. 5 Current Noise

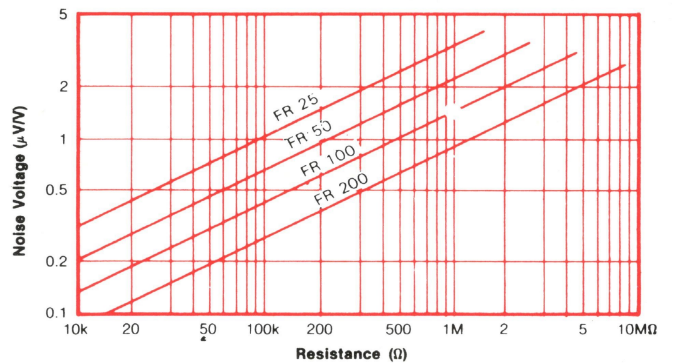


FIG. 1 Moisture Resistance

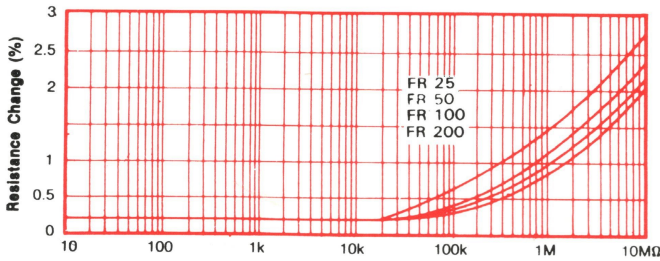


FIG. 2 Load Life

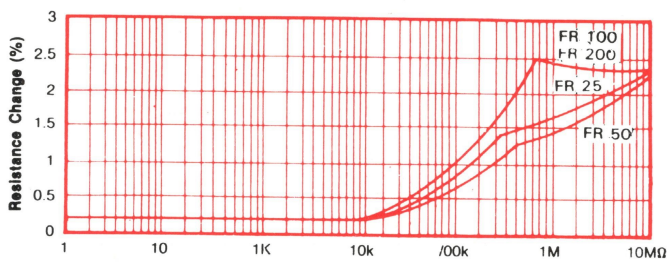


FIG. 6 High Frequency Characteristic

