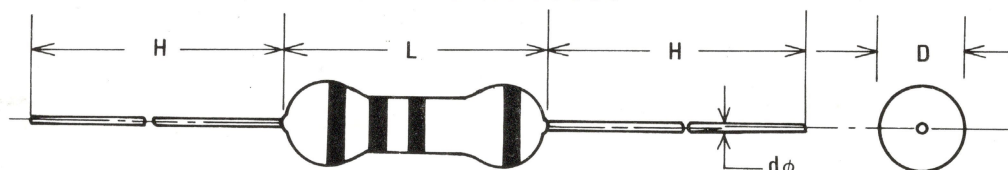


CARBON FILM FIXED RESISTOR

SPECIFICATIONS PER

I E C 115-1 115-4
D I N 44051 44052
M I L R-10509



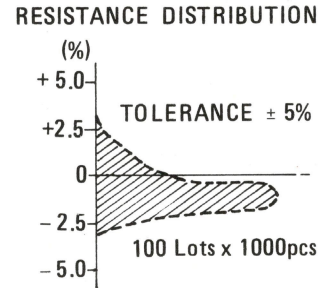
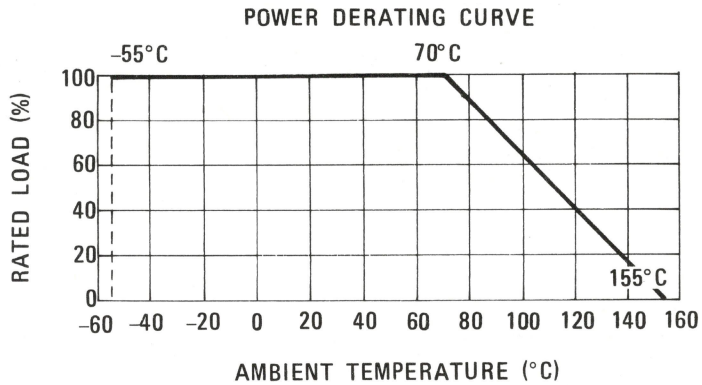
- CONFORMAL MULTI-COATING
- COLOR CODE PER MIL & EIA STANDARDS
- SPECIAL TIN PLATED ELECTROLYTIC COPPER LEADWIRE

DIMENSIONS

TYPE NO.	BODY (mm)		LEADWIRE (mm)		NET WEIGHT PER 1000pcs
	LENGTH (L)	DIAMETER (D)	LENGTH (H)	DIAMETER (d)	
R- 16	3.1±0.2	1.8±0.2	28.0 MIN.	0.45±0.02	145 grms
R- 20	3.1±0.2	1.8±0.2	28.0 MIN.	0.45±0.02	145 grms
R- 25	6.5±0.5	2.4±0.2	26.0 MIN.	0.60±0.03	220 grms
R- 51	8.8±1.0	3.2±0.2	26.0 MIN.	0.60±0.03	340 grms
R- 52	6.7±0.3	2.6±0.3	26.0 MIN.	0.60±0.03	300 grms
R-100	12.0±1.0	4.5±0.5	26.0 MIN.	0.60±0.03	600 grms
R-200	15.5±1.0	6.0±0.5	26.0 MIN.	0.80±0.03	1200 grms

SPECIFICATIONS

TYPE NO.	POWER RATING AT 70°C	MAX. WORKING VOLTAGE	MAX. OVERLOAD VOLTAGE	RESISTANCE RANGE		RESISTANCE TOLERANCE	STANDARD RESISTANCE VALUES
				MIN.	MAX.		
R- 16	1/6W	200V	400V	1 OHM	1.0M	±5%	E-24
				10 OHM	1.0M	±2%	
R- 20	1/4W	250V	500V	1 OHM	1.0M	±5%	E-24
				10 OHM	1.0M	±2%	
R- 25	1/3W	250V	500V	1 OHM	10M	±5%	E-24
				10 OHM	1.0M	±2%	
R- 51	1/2W	350V	650V	1 OHM	10M	±5%	E-24
				10 OHM	1.0M	±2%	
R- 52	1/2W	350V	500V	1 OHM	4.7M	±5%	E-24
				10 OHM	1.0M	±2%	
R-100	1W	500V	1000V	1 OHM	1.0M	±5%	E-24
				10 OHM	1.0M	±2%	
R-200	2W	500V	1000V	1 OHM	1.0M	±5%	E-24
				10 OHM	1.0M	±2%	



PERFORMANCE SPECIFICATIONS

CHARACTERISTICS	LIMITS			
TEMPERATURE COEFFICIENT	(R-16/R-20)	(R-25/R-51/R-52)	(R-100/R-200)	
± 300 PPM/°C	LESS THAN 33K	LESS THAN 33K	LESS THAN 56K	
– 500 PPM/°C	36K – 330K	36K – 330K	68K – 470K	
– 700 PPM/°C	360K – 470K	360K – 470K	510K – 1.0M	
– 1000 PPM/°C	510K – 910K	510K – 1.0M	OVER THAN 1.0M	
– 1500 PPM/°C	OVER THAN 910K	OVER THAN 1.0M		
SHORT TIME OVERLOAD	± (1% + 0.05R)			
DIELECTRIC WITHSTANDING VOLTAGE	(R-16/R-20) AC 300V	(R-25/R-52) AC 500V	(R-51) AC 700V	(R-100/R-200) AC 1000V
INSULATION RESISTANCE	10 ⁴ Mohm MIN.			
VOLTAGE COEFFICIENT	25 PPM/V			
TEMPERATURE CYCLING	± (1% + 0.05R)			
HUMIDITY	± 3%			
LOAD LIFE IN HUMIDITY	± 5%			
LOAD LIFE (AT 70°C)	± 5%			
RESISTANCE TO SOLDERING HEAT	± (1% + 0.05R)			
SOLDERABILITY	95% MIN.			
TERMINAL STRENGTH	± (1% + 0.05R)			
VIBRATION	± (1% + 0.05R)			
LOW TEMPERATURE OPERATION	± (1% + 0.05R)			
SHELF LIFE (ONE YEAR)	± (1% + 0.05R)			