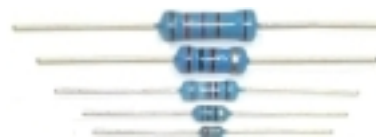


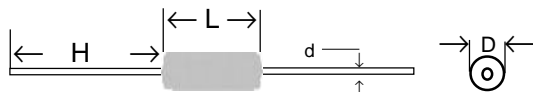
COMMERCIAL 1/8 WATT TO 2 WATT METAL FILM RESISTORS

GP SERIES



FEATURES

- Industry's lowest cost! Delivery from stock (GP55 10Ω to 1M 1% E96 values)
- Improved stability, ±0.2% ΔR typical load life
- Meet or exceed performance requirements of MIL-R-10509 (RN), MIL-R22684 (RRL), EIA RS-460
- Exceptionally wide resistance range: 10Ω to 5.1 Meg standard, 1Ω to 22.1 Meg available
- Wide TC range: 25, 50, 100, 200ppm/°C
- Standard tolerances: 1%, 2% (available to ±0.1%)
- All sizes available on Tape & Reel
- Refer to Series GPS for miniature sizes
- **FLAME PROOF COATING AVAILABLE (SERIES FP)**



DIMENSIONS

RCD Type	L±.02 [.05]	D±.015 [.4]*	d±.003 [.08]	H (Min.)
GP50	.150 [3.8]	.064 [1.6]	.018 [.45]	1.06 [27]
GP55	.250 [6.4]	.090 [2.3]	.026 [.65]	1.06 [27]
GP60	.360 [9.1]	.132 [3.4]	.026 [.65]	1.06 [27]
GP65	.455 [11.5]	.177 [4.5]	.030 [.75]	1.06 [27]
GP70	.590 [15]	.195 [5.0]	.030 [.75]	1.06 [27]

*Tolerance is ±.032 on GP60, GP65, and GP70.

Precision performance, economical cost!

RCD GP Series general purpose color-banded metal film resistors are designed to provide MIL performance and reliability, at significant cost savings. Substantially improved performance over industry standard is attained by stringent process controls and highest grade materials. The high-grade, thermal conductive ceramic core allows increased stability and overload dissipation. The lead termination is welded for increased durability, special electroplate solder coating is standard for faultless soldering even after extended storage. Request Engineering Bulletin R-8 for detailed performance data and test methods on GP Series. Low prices result from manufacturing facility built exclusively for totally automated production of film resistors.

See GPS Series for miniature sizes!

SPECIFICATIONS

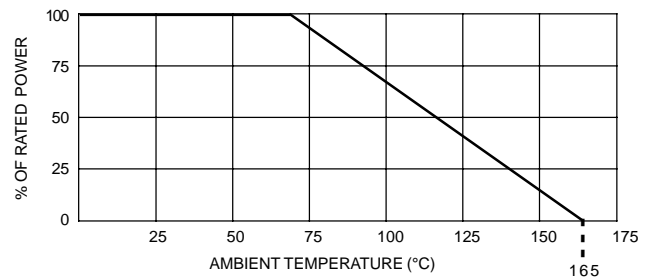
STOCK ITEM	RCD Type	Wattage 70°C	Working Voltage ¹	Dielectric Withstanding Voltage	TCR (PPM/°C)	Resistance Range	MIL Equivalents ³	
							MIL-R-10509	MIL-R-22684
	GP50	0.125W	200V	350V	100,50,25	10Ω - 1 Meg	RN50	-
	GP55	0.25W	250V	500V	200,100	1Ω - 5.1 Meg ²	RN55	RL07
					50,25	10Ω - 1 Meg		
	GP60	0.50W	350V	500V	200,100	10Ω - 1 Meg	RN60	RL20
					50,25	10Ω - 5.1 Meg		
	GP65	1.0W	400V	700V	200,100	10Ω - 1 Meg	RN65	RL32
					50,25	10Ω - 5.1 Meg		
	GP70	2.0	500V	700V	200,100	10Ω - 1 Meg	RN70	RL42
					50,25	51Ω - 1 Meg		

¹ Maximum working voltage determined by $E=\sqrt{PR}$, E should not exceed value listed in column above.

² GP55 available up to 22.1 MegΩ with relaxed performance characteristics.

³ Military part numbers are given for reference only and do not imply qualification or exact interchangeability.

DERATING



PERFORMANCE CHARACTERISTICS*

Environmental Test	RCD Max. ΔR	MIL-R-10509
Dielectric Withstanding	0.25%	0.5%
Moisture Resistance	0.5%	1.5%
Short Time Overload	0.25%	0.5%
Load Life	0.5%	1.0%
Temperature Cycling	0.25%	0.5%
Shock, Vibration	0.2%	0.5%
Insulation Resistance	10,000MΩ	10,000MΩ

*Total resistance change + (ΔR% + 0.05%). Characteristics given are for resistance range 10Ω to 1.0 Meg. Consult factory for performance levels outside of this range.

P/N DESIGNATION:

GP55 - 1001 - F T

RCD Type (FP55- for flameproof)

4-Digit Resis. Code: 3 signif. digits & multiplier (10R0=10Ω, 1000=100Ω, 1001=1KΩ, 1004=1MΩ)

Tolerance Code: J=5%, G=2%, F=1%, D=0.5%, C=0.25%, B=0.1% (1% is standard stock)

Packaging: B = Bulk, T = Tape & Reel

TC Options: 50=50ppm, 25=25ppm, 15=15ppm, leave blank for standard TC (100ppm for 1% 10 ohm to 10M, 200ppm for 1 ohm to <10 ohm; 200ppm for 2% or 5% 1 ohm to 10M)

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FAxxxx specifications subject to change without notice