

FEATURES

- Resistances from 1M to 1TOhms
- Power Rating 0.5 to 2Watts
- Resistance Tolerances to $\pm 0.5\%$
- TCR's to $\pm 25\text{ppm/K}$
- Non-Magnetic
- High Value Thick Film Resistance Element



RoHS*
COMPLIANT

TABLE 1 – SPECIFICATIONS

Type		1210	25	2512	4020
Power Rating (W) ¹		0.5	0.7	1.0	2.0
Working Voltage (VAC)	Trimmed	300	300	1200	4000
	Untrimmed	1000	500	2500	6000
Resistance Range (Ω)		Tolerances Available (%) Temperature Coefficients Available (\pm ppm/K) ² Voltage Coefficient (ppm / V)			
1M - 100M		0.5% to 10% 25 / 50 / 100 50ppm/V	2% to 10% 50 / 100 50ppm/V	0.5% to 10% 25 / 50 / 100 10ppm/V	0.25% to 10% 25 / 50 / 100 5ppm/V
>100M - 500M		2% to 20% 50 / 100 / 250 100ppm/V	5% to 20% 100 / 250 100ppm/V	1% to 20% 25 / 50 / 100 25ppm/V	0.5% to 20% 25 / 50 / 100 10ppm/V
>500M - 1G		5% to 20% 100 / 250 100ppm/V	5% to 20% 100 / 250 100ppm/V	1% to 20% 100 / 250 25ppm/V	1% to 20% 25 / 50 / 100 10ppm/V
>1G - 10G		5% to 30% 250 / 500 500ppm/V	10% to 30% 250 / 500 500ppm/V	2% to 20% 100 / 250 100ppm/V	2% to 20% 50 / 100 25ppm/V
>10G - 100G		5% to 30% 500 / 1000 1000ppm/V	10% to 30% 500 / 1000 1000ppm/V	5% to 30% 250 / 500 250ppm/V	5% to 30% 100 / 250 100ppm/V
>100G - 1T		-	-	10% to 50% 500 / 1000 500ppm/V	5% to 30% 250 / 500 250ppm/V

¹ W @ 70 °C / 0W @ 125 °C
² 25 / 50 PPM : +25°C to +85°C

ORDERING INFORMATION

Part Number - Resistance - Tolerance - TCR

GST 2512 10GOhms 10% 100ppm
(Note: if no TCR is Specified / The highest value will be supplied)

TABLE 1 – SPECIFICATIONS (continued)

Specification	Value		
Temperature Range	-55°C to +125°C		
Climactic Category	55 / 125 / 56		
Long Term Stability	Max ΔR		
	<1 GΩ	1 GΩ - 10 GΩ	>10 GΩ
Storage 125°C / 1000h	<1%	<2%	<5%
Maximum Voltage / 1000h	<0.5%	<1%	<2%

FIGURE 1 – DERATING

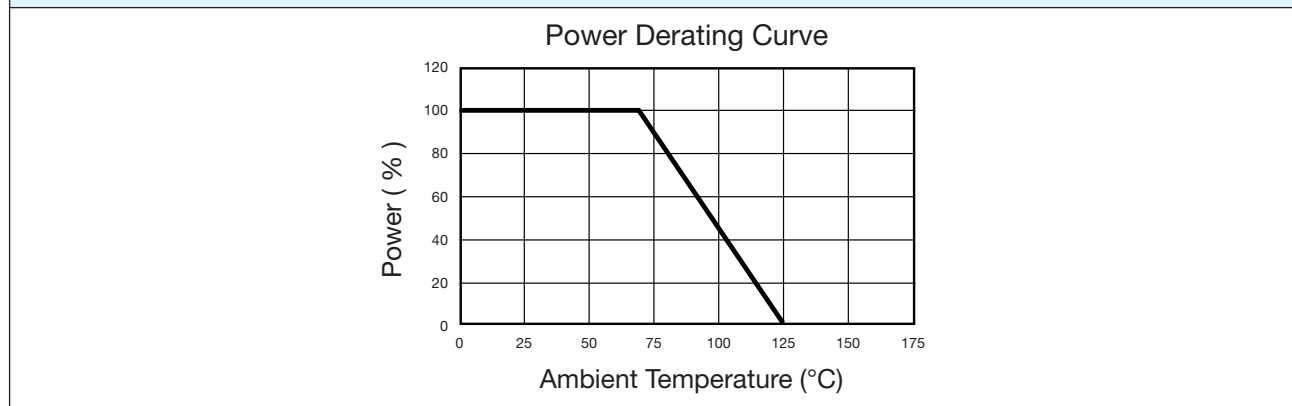
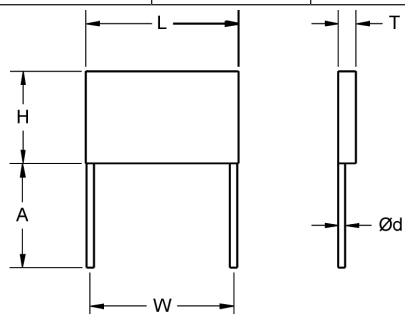


FIGURE 2 – DIMENSIONS in inches [mm]

Type	Dimensions					
	L ±0.020 [±0.5]	H ±0.020 [±0.5]	T ±0.020 [±0.5]	W ±0.020 [±0.5]	A +0 /-0.08 [+0 /-2.0]	d ±0.002 [±0.05]
GST 1210	0.126 [3.2]	0.098 [2.5]	0.035 [0.9]	0.079 [2.0]	0.79 [20]	0.016 [0.4]
GST 25	0.150 [3.8]	0.200 [5.0]	0.039 [1.0]	0.098 [2.5]	0.79 [20]	0.016 [0.4]
GST 2512	0.250 [6.3]	0.138 [3.5]	0.039 [1.0]	0.217 [5.5]	0.79 [20]	0.016 [0.4]
GST 4020	0.400 [10.2]	0.200 [5.1]	0.039 [1.0]	0.374 [9.5]	0.79 [20]	0.016 [0.4]





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