

# GST Series

High Resistance / Thick Film Leaded Resistors



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

## SPECIFICATIONS

Type		1210	2512	4020
Power Rating ( W ) <sup>1</sup>		0.5	1.0	2.0
Working Voltage ( VAC )	Trimmed	300	1200	4000
	Untrimmed ( $\geq 5\%$ tol.)	1000	2500	6000
Resistance Range ( $\Omega$ )		Tolerances Available ( % ) Temperature Coefficients Available ( $\pm$ ppm/K ) <sup>2</sup> Voltage Coefficient ( ppm / V ) Typical Value		
1M - 100M		0.5% to 10% 25 / 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	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	1% to 20% 100 / 250 25ppm/V	1% to 20% 25 / 50 / 100 10ppm/V
>1G - 10G		5% 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	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

<sup>1</sup>W @ 70 °C / 0W @ 125 °C  
<sup>2</sup>25 / 50 PPM : +25°C to +85°C  
 Labeling on parts available upon request

Note: Do not use Acetone or Methylene Chloride for cleaning as they destroy coating.

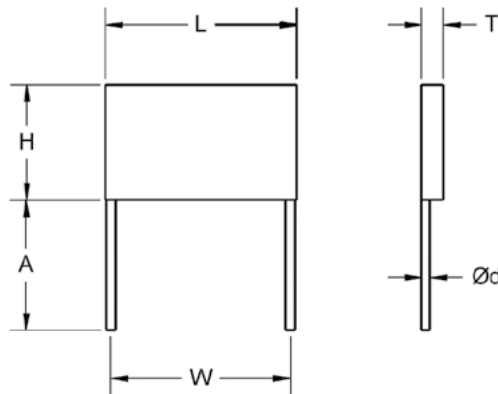
# GST Series

High Resistance / Thick Film Leded Resistors



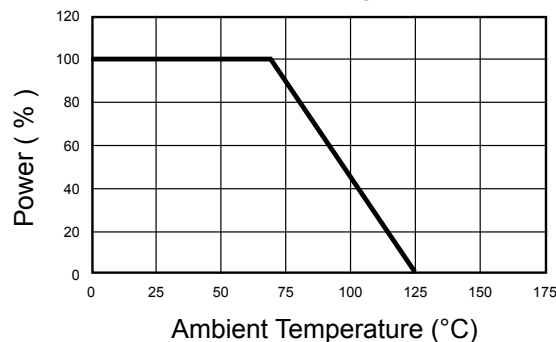
## SPECIFICATIONS (continued)

Specification	Value		
Temperature Range	-55°C to +125°C		
Climactic Category	55 / 125 / 56		
Long Term Stability	Max $\Delta R$		
	<1 G $\Omega$	1 G $\Omega$ - 10 G $\Omega$	>10 G $\Omega$
Storage 125°C / 1000h	$\pm 1\%$	$\pm 2\%$	$\pm 5\%$
Maximum Voltage / 1000h	$\pm 0.5\%$	$\pm 1\%$	$\pm 2\%$



Type	Dimensions					
	L $\pm 0.008$ [ $\pm 0.2$ ]	H $\pm 0.008$ [ $\pm 0.2$ ]	T $\pm 0.008$ [ $\pm 0.2$ ]	W $\pm 0.008$ [ $\pm 0.2$ ]	A $+0 / -0.08$ [ $+0 / -2.0$ ]	d $\pm 0.002$ [ $\pm 0.05$ ]
<b>GST 1210</b>	0.126 [ 3.2 ]	0.098 [ 2.5 ]	0.035 [ 0.9 ]	0.079 [ 2.0 ]	0.79 [ 20 ]	0.016 [ 0.4 ]
<b>GST 2512</b>	0.250 [ 6.3 ]	0.138 [ 3.5 ]	0.039 [ 1.0 ]	0.217 [ 5.5 ]	0.79 [ 20 ]	0.016 [ 0.4 ]
<b>GST 4020</b>	0.400 [ 10.2 ]	0.200 [ 5.1 ]	0.039 [ 1.0 ]	0.374 [ 9.5 ]	0.79 [ 20 ]	0.016 [ 0.4 ]

Power Derating Curve



## Ordering Information

Part Description: Part Type - Resistance - Tolerance - TCR

Example: GST 2512 10G 10% 100ppm

( Note: if no TCR is Specified / The highest value will be supplied )