

SRT Resistor Technology

High Value Resistors radial leaded

Type: GST

Size: 1210, 25, 2512, 4020

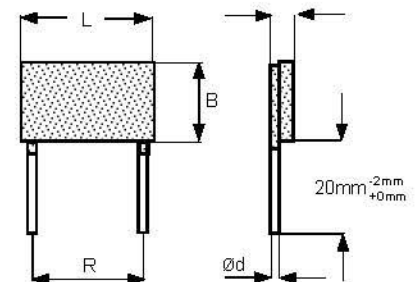
Features:

- High Value Resistors in thick film technology
- Variable lead spacing
- Resistance values up to 1 Tera-Ohm
- Excellent values of tolerance, TCR and VCR
- Untrimmed for higher working voltage
- Climatic protection by lacquer coating
- Non-magnetic



Dimensions:

Size	L	B	D	R	d
1210	3.2	2.5	0.9	2.0	0.40 ^{±0.05}
25	3.8	5.0	1.0	2.5	0.40 ^{±0.05}
2512	6.3	3.5	1.0	5.5	0.40 ^{±0.05}
4020	10.2	5.1	1.0	9.5	0.40 ^{±0.05}



L = Length, B = Width, D = Thickness (Tolerance of dimensions: ± 0.5 mm)

d = Standard wire diameter (in mm), other diameters possible

R = Standard lead spacing (other spacing possible by bending)

Packaging:

Bulk in plastic bags

Minimum quantity: 100 pieces per value

Ordering Data:

Type – value – tolerance – TCR

Example: GST 4020 10G $\pm 10\%$ TCR 100

Untrimmed parts are indicated by the extension "NA" in the order code:

Type – value – tolerance – NA – TCR – packaging

Example: GST 4020 10G $\pm 10\%$ NA TCR 100

If no data for TCR are supplied, the highest value in the table will be supplied.

Standard measuring voltage is 10V, other voltages on request.

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Technical data – depending on size:

Size	1210	25	2512	4020
Power Rating P_{70} (W) ($P_{125} = 0W$)	0.5	0.7	1.0	2.0
Working Voltage U_{-} , U_{eff} (V) trimmed untrimmed (Tol. $\geq 5\%$)	300 1000	300 500	1200 2500	4000 6000

Ranges / Tolerances / TCR ¹⁾ / VCR ²⁾				
1M – 100M	0.5/1/2/5/10% TC 25/50/100 50 ppm/V	2/5/10% TC 50/100 50 ppm/V	0.5/.../10% TC 25/50/100 10 ppm/V	0.25/.../10% TC 25/50/100 5 ppm/V
>100M – 500M	2/5/10/20% TC 50/100/250 100 ppm/V	5/10/20% TC 100/250 100 ppm/V	1/2/5/10/20% TC 25/50/100 25 ppm/V	0.5/1/2/5/10/20% TC 25/50/100 10 ppm/V
>500M – 1G	5/10/20% TC 100/250 100 ppm/V	5/10/20% TC 100/250 100 ppm/V	1/2/5/10/20% TC 100/250 25 ppm/V	1/2/5/10/20% TC 25/50/100 10 ppm/V
>1G – 10G	5/10/20/30% TC 250/500 500 ppm/V	10/20/30% TC 250/500 500 ppm/V	2/5/10/20% TC 100/250 100 ppm/V	2/5/10/20% TC 50/100 25 ppm/V
>10G – 100G	5/10/20/30% TC 500/1000 1000 ppm/V	10/20/30% TC 500/1000 1000 ppm/V	5/10/20/30% TC 250/500 250 ppm/V	5/10/20/30% TC 100/250 100 ppm/V
>100G – 1T	–	–	10/20/30/50 TC 1000 500 ppm/V	5/10/20/30% TC 500 250 ppm/V

¹⁾ TCR: in ppm/K; TC25/50: Temperature range +25°C...+85°C

²⁾ VCR: typical values

Closer values of tolerances, TCR and VCR or other dimensions: on request and agreement.

Technical data – general:

Temperature range	-55°C ... +125°C
Climatic category acc. to EN 60068-1	55/125/56
Humidity- / contact protection	Lacquer coating ³⁾

Long term stability	$\leq 1G$	$\leq 10G$	$> 10G$
Storage 125°C/1000h	<1%	<2%	<5%
Max voltage/1000h	<0.5%	<1%	<2%

³⁾ Resistant to most solvents. For cleaning the use of isopropyl alcohol (IPA) is recommended.
The use of acetone and methylene chloride is **not** allowed.