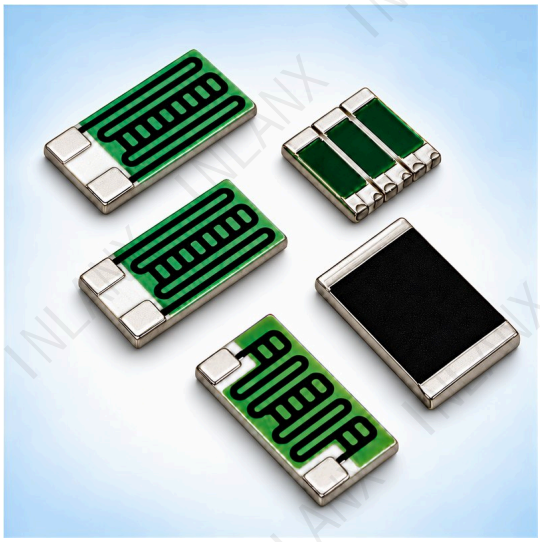
RHT

High-Ohm Chip Resistors

Features

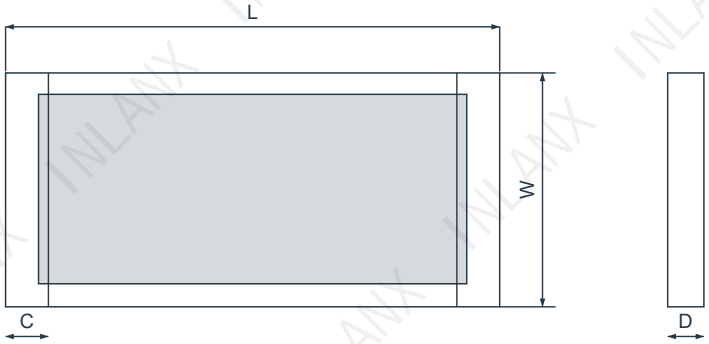
- Thick-film high-ohm chip resistor
- Terminations for gluing and soldering
- Working voltage up to 6000 V
- TCR as low as ±25 ppm/°C



Applications

High-voltage power supplies, audiophile speakers, medical electronic devices, audio/smoke/infrared/radiation/gas sensors, and high-voltage small-signal multiplying circuits.

Outline Dimensions (mm)



Size	L +0.15/-0.05	W +0.2/-0.05	D +0.15/-0.05	C
1206	3.2	1.5	0.4	0.3
1210	3.2	2.5	0.5	0.8
2512	6.3	3.5	0.6	0.9
4020	10.2	5.1	0.6	1.0

Power and Working Voltage

Size	1206	1210	2512	4020
Rated power (mW)	300	450	600	1000
Working voltage (V)	1500	1750	2500	3000

RHT

High-Ohm Chip Resistors

Resistance / Tolerance / TCR / VCR

Range (Ω)	Parameter	1206	1210	2512	4020
	Tolerance	0.5–10%	0.5–20%	0.5–20%	0.25–10%
1M–100M	TCR ppm/°C	25/50/100	25/50/100	50/100	25/50/100
	VCR ppm/V	<10	<50	<10	<5
	Tolerance	2–20%	2–20%	1–20%	0.5–20%
>100M–500M	TCR ppm/°C	100/250	100/250	50/100	25/50/100
	VCR ppm/V	<100	<100	<25	<10
	Tolerance	5–20%	5–20%	1–20%	1–20%
>500M–1G	TCR ppm/°C	100/250	100/250	100/250	25/50/100
	VCR ppm/V	<250	<100	<25	<10
	Tolerance	5–20%	5–20%	2–20%	2–20%
>1G–10G	TCR ppm/°C	500/1000	250/500	250/500	50/100
	VCR ppm/V	<2000	<1000	<250	<100
	Tolerance	—	—	5/10/20%	5–30%
>10G–50G	TCR ppm/°C	—	—	250/500	100/250
	VCR ppm/V	—	—	<250	<100

Stability

Test	<1G	≤10G	≤10G
Storage at 125°C, 1000 h	<1%	<2%	<2%
Maximum voltage, 1000 h	<0.5%	<1%	<1%

Temperature range: -55°C to +125°C; climatic category 55/125/56.

TCR measurement: +25°C to +85°C. VCR measured between 100 V and 1000 V.

Solderability: IEC 60068 T2-20, 235°C, 5 s. Maximum soldering temperature: IEC 60068 T2-20, 245°C, 10 s.

Better tolerance, TCR and VCR are available. Solder pads must provide adequate heat conduction for continuous dissipation.