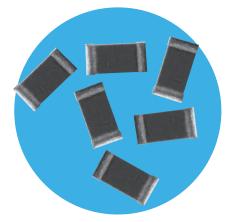
Resistors

Glueable Chip Resistor

GCR Series

- Suitable for conductive adhesive
- Planar and wraparound versions
- High temperature operation to 200°C
- Non-magnetic (G, P & EW types)
- Range 0805 to 2512 at 1R0 to 10M
- RoHS compliant





All parts are Pb-free and comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

Electrical Data

Size		0805	1206	2010	2512	
Power @70°C	W	0.125	0.25	0.625	1	
Resistance range	ohms	1R0 to 10M				
Tolerance	%			1, 5		
EV		150	200 400		500	
TCR	ppm/°C	<10R:200 ≥10R:100				
Operating temperature	°C	-55 to +200				
Thermal Impedance °C/W		220	160	75	40	
Values		E24 or E96 preferred - other values to special order				
Zero-ohm jumper current rating	A	A 1.5 2				
Zero-ohm jumper residual resistance	milliohms	<50				

Physical Data

Dimensio	ons (mm) & v	veight (mg)						
	L	w	T max	А	С	Wt.	G & P types	EW & GW types
0805	2.0±0.15	1.25±0.15	0.6	0.3±0.15	0.3±0.1	4.7	Т	
1206	3.2±0.2	1.6±0.2	0.7	0.4±0.2	0.4±0.15	8.5	W	
2010	5.1±0.3	2.5±0.2	0.8	0.6±0.3	0.6±0.25	36	-	
2512	6.5±0.3	3.2±0.2	0.8	0.6±0.3	0.6±0.25	55		Wrap-around terminations (3 faces)

Construction

Planar gold G type or PtAg P types: Electrodes, resistor material and overglaze are printed onto an alumina substrate. The resistors are laser trimmed to the required value and protected.

Wraparound EW type: Thick-film PtAg electrodes, resistor material and overglaze are printed onto an alumina substrate. The resistors are laser trimmed to the required value and protected. The terminations are wraparound coated with a polymer Ag material.

Wraparound GW type: These are made as the EW type then plated with a nickel barrier and Gold. All termination styles are suitable for attachment with conductive adhesive.

Marking

The components are not marked; all data is printed onto the packaging.

Solvent Resistance

The component is resistant to all normal industrial cleaning solvents suitable for printed circuits.

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

BI Technologies IRC Welwyn



Performance Data

		Maximum	Derating Curve		
Load at rated power (1000hrs at 70°C)	Δr	2% + 0.01Ω	Derating Curve		
Derating from rated power at 70°C		See Derating Curve	↑		
Short term overload	Δr	1% + 0.01Ω	100%		
Dry heat (1000hrs at 200°C)	Δr	2% + 0.01Ω			
Damp heat steady state (56 days, 40°C, ≥90% RH)	Δr	1% + 0.01Ω			
Climatic	Δr	1% + 0.01Ω	70 155 200		
Temperature rapid change (5 cycles -55°C to +200°C)	Δr	1% + 0.01Ω	Ambient temperature degC		

Packaging

0805 and 1206 GCR series resistors are supplied on 8mm carrier tape and 7 inch reels as per IEC 286-3, quantity per reel; 3000. 2010 and 2512 GCR series resistors are supplied on 12mm carrier tape and 7 inch reels as per IEC 286-3, quantity per reel; 2010: 3000pcs; 2512: 1800pcs.

Ordering Procedure

Example: GCR1206G-10KFT3 (GCR1206 in gold planar format at 10 kilohms ±1%, Pb-free)

G C R 1 2 0 6	G	-	1 0 K	FT	3
1	2]	3	4	5

1	2		3	4 5				
Туре	Type Termination		Value	Tolerance	Packing			
GCR0805	G	Gold planar	3/4 characters	F = ±1%	Т3	0805,1206,	Tana un ta 2000/real	
GCR1206	Р	PtAg planar	R = ohms	J = ±5%	13	2010	Tape, up to 3000/ree	
GCR2010	EW	Polymer Ag wraparound	K = kilohms	Omit for	T18	2512	Tape, up to 1800/reel	
GCR2512	GW	Ni Barrier & Au plated wraparound	M = megohms R000 = jumper	jumper				

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