PRECISION THICK FILM CHIP RESISTORS



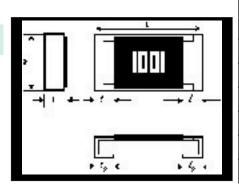
RGC 16S, 16, 10, 18

MEGASTAR-OHM'S precision thick film chip resistors provide low temperature coefficients at a very economical cost. These resistors are a dependable solution for maintaining resistance stability over changing temperature ranges found in automotive, computer, and a variety of other industrial and commercial applications.

FEATURES

- 1. A wide range of power ratings for design flexibility
- 2. T.C.R. of either \pm 100 ppm/°C or \pm 50 ppm/°C available with all power ratings.
- 3. Excellent solderability with both flow and reflow soldering operations.
- 4. Operating temperatures ranges from -55°C to +125°C.

DIMENSIONS



RGC 18K

TYPE (size)	RGC 16S (0402)	RGC 16 (0603)	RGC 10 (0805)	RGC 18 (1206)
L	1.0±0.05	1.6±0.1	2.0±0.15	3.1±0.2
W	0.5±0.05	0.8±0.1	$1.25\pm^{0.1}_{-0.05}$	1.55±0.1
Н	0.35±0.05	0.45±0.1	0.6±0.1	0.6±0.1
l ₁	0.2±0.1	0.25±0.1	0.4±0.2	0.45±0.2
l ₂	$0.25\pm^{0.15}_{0.1}$	0.3±0.1	$0.3\pm^{0.2}_{0.1}$	$0.3\pm^{0.2}_{0.1}$
Unit Weight	0.6 mg	2 mg	5 mg	9 mg

RATINGS

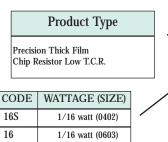
Resistance values indicated by four digit marking on 0805 and larger components.

Туре	Rated Power @	Maximum Maximum Working Overload	Resistance Temperature	Resistance Range and Tolerance (E ₉₆ Series)			
(Size)	70°C W	Voltage V	Voltage V	Coefficient ppm/°C	±0.5% (D)	±1.0% (F)	
RGC 16S (0402) 0.063 5	50	50 100	±50	100 to 1.0M	100 to 1.0M		
103 (0402)	0.003] 30	30 100	±100		10 to 3.3M	
RGC 16 (0603)	RGC 16 (0603) 0.063 50	100	±50	100 to 1.0M	100 to 1.0M		
RGC 10 (0003)	0.003] 30	30 100	±100		3.3 to 3.3M	
RGC 10 (0805)	0.1	150 200	1 150 300	300	±50	10 to 3.3M	10 to 3.3M
RGC 10 (0003)	0.1	130	130 300	±100		3.3 to 3.3M	
RGC 18 (1206) 0.125 200 400	0.125	25 200	400	±50	10 to4.7M	10 to4.7M	
	400	±100		3.3 to4.7M			

For T.C.R. less than 50ppm/ $^{\circ}$ C and resistance tolerance less $\pm 0.5\%$, use RNC type.

Part Numbering System

XXXX



1/10 watt (0805)

1/8 watt (1206)

	•
T.C.R.	
CODE	ppm/°C
С	±50ppm/°C
K	±100ppm/°C

D T

Resistance Value		
4-Digit Code E ₉₆		
CODE	VALUES	
1002	10.0 K	
10R0	10.0	

Раскадинд		
CODE	DETAIL	
В	Bulk	
T	Tape & Reel (paper)	
TE Tape & Reel (plastic)		
Please refer to packaging explanation on		

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PRECISION THICK FILM CHIP RESISTORS



RGC

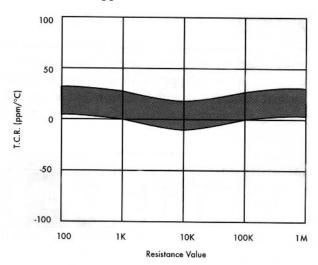
RGC 16S, 16, 10, 18

• PERFORMANCE CHARACTERISTICS

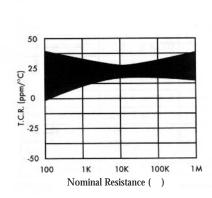
DESCRIPTION	PERFORMANCE
Resistance Temperature Coefficient	As specified in table
Short-time overload	±0.5% maximum
Insulation Resistance	1,000 M minimum
Terminal Strength	±0.25% maximum
Vibration	±0.25% maximum
Solder-Heat resistance	±0.25% maximum
Solderability	95% minimum coverage
Temperature Cycle	±0.25% maximum
Load Life in Moisture	±0.5% maximum
Load Life	±0.5% maximum
Test methods per EI	A 575 and JIS C5202

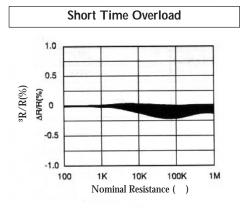
• TYPICAL PERFORMANCE

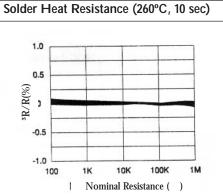
Resistance Temperature Coefficient RGC 18, ±50ppm/°C



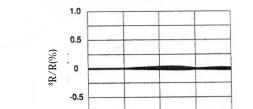
PERFORMANCE CURVES







Nominal Resistance ()



1K

10K

Nominal Resistance ()

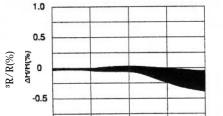
100K

-1.0

100

Temperature Cycle (-55°C/125°C, 5 cycles)

0.5 ³R/R(%) AMM(%) 0 -0.5 -1.0 100



Nominal Resistance ()

100K

1M

Load Life (Rated Load) (70°C, RCWV 1,000 hrs)

Megastar-Ohm 8