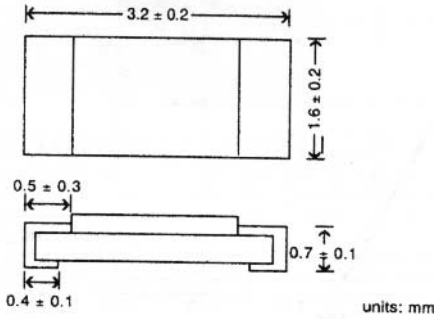


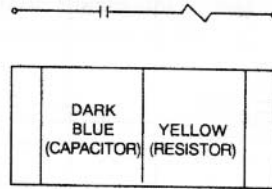
## CRC 10, 18

- Impedance Matching Function
- Ideal for High Speed Clock Circuits
- Noise Filtering Function
- Reduces Mounting Space and Component Count by 50%
- Nickel and Solder Plated Terminations
- MEGASTAR-OHM 2 Termination Chip

### DIMENSIONS



### CIRCUIT CONSTRUCTION



TYPE	L	W	c	d	t
CRC 10	2.0±0.2	1.25±0.2	0.4±0.2	0.3±0.2	0.7±0.1
CRC 18	3.2±0.2	1.6±0.2	0.5±0.3	0.4±0.2	

## PERFORMANCE CHARACTERISTICS

RESISTOR					
TYPE	TCR (PPM/°C)	POWER RATING	MAXIMUM WORKING VOLTAGE	RESISTANCE RANGE (E-24)	RESISTANCE TOLERANCE
CRC 10	(±200)	0.1W	25V	10~1K	M(±20%)
CRC 18	(±200)	0.125W	50V	10~1K	M(±20%)

CAPACITOR					
TYPE	TC	VOLTAGE RATING	CAPACITANCE RANGE	CAPACITANCE TOLERANCE @1KHz/25°C	CAPACITANCE DISSIPATION FACTOR
CRC 10	E(+20%/-55%)	25V	27~200pF (E6)	M(±20%)	5% max.
CRC 18		50V	10~200pF (E12)		

## Part Numbering System

CRC 18 TE 270M/510M

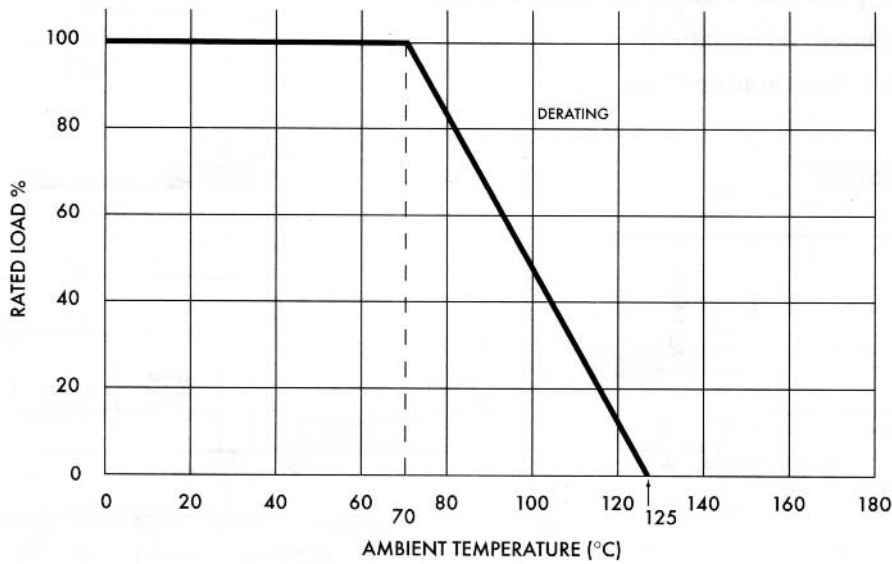
Product Type
Capacitor/Resistor Chip

Power Rating	
Code	Wattage (Size)
10	1/10W (0805)
18	1/8W (1206)

Packaging	
CODE	DETAIL
TE	Tape & Reel (plastic carrier)

CAPACITANCE/RESISTANCE
2 significant digits plus the number of zeros followed by the tolerance M=±20%

ENVIRONMENTAL APPLICATIONS



PARAMETER	MAXIMUM <sup>3</sup> R	TEST METHOD
Thermal Shock	C±10% R± 3%	MIL-STD-202F, Method 107D -40°C ~ +125°C, 100 cycles
Low Temperature Operation	C±10% R± 3%	MIL-R-55342D 4.7.4 1 hour @ -40°C followed by 45 minutes of RCWV**
High Temperature Exposure	C±10% R± 3%	MIL-R-55342D 4.7.6 1000 hours @ 125°C
Resistance to Solder Heat	C±10% R± 3%	MIL-R-55342D 4.7.7 10 seconds @ 260°C
Terminal Strength-Bend	C±10% R± 3%	3mm Deflection in Either Direction for 10 seconds
Moisture Resistance	C±10% R± 3%	MIL-STD-202F, Method 106E 10 cycles, 240 hours
Life	C±10% R± 3%	MIL-STD-202F, Method 108A 70°C, 1000 hours 1.5 hr ON, 0.5 Hr OFF
<b>MINIMUM</b>		
Terminal Adhesion	15 Grams	Axial Pull, One Terminal at a Time
Dielectric Withstanding Voltage CRC 10 CRC 18	400	
Insulation Resistance	1,000 M	

\*\*RCWV - Rated Continuous Working Voltage