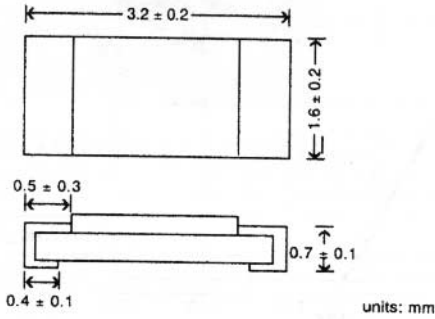




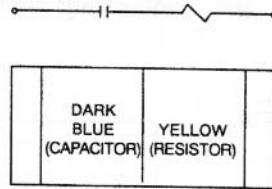
CRC 10, 18

- 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 |

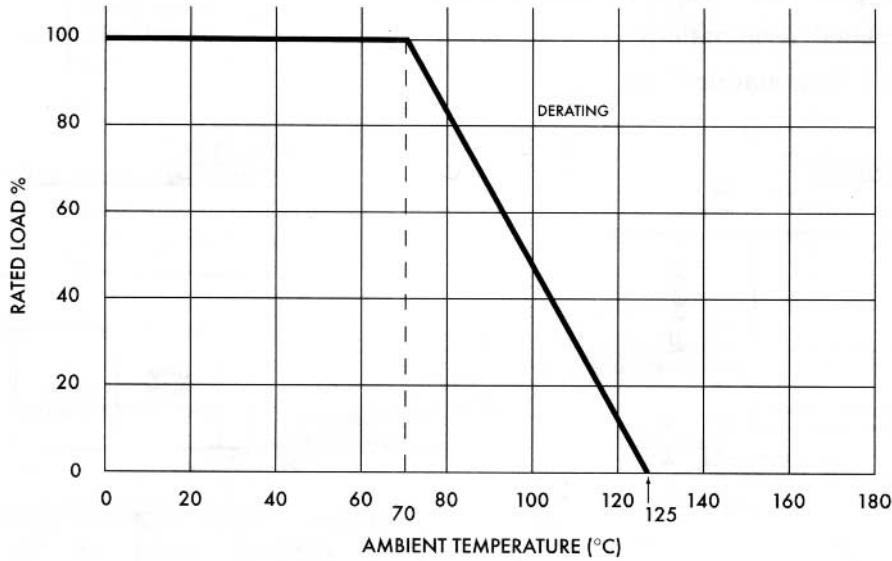
| Power Rating | |
|--------------|----------------|
| Code | Wattage (Size) |
| 10 | 1/10W (0805) |
| 18 | 1/8W (1206) |

| 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 ³ 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 |
| MINIMUM | | |
| 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