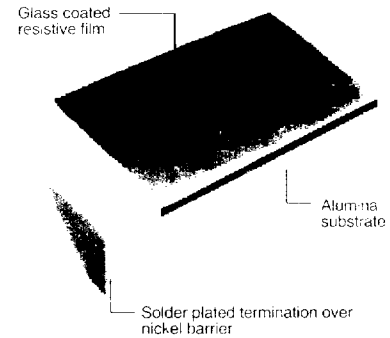


FLAT CHIP RESISTOR

CHF SERIES*

- 1 ohm to 22 megohm
- Glass coated
- 1% and 5% tolerance
- 1/10 W and 1/8 W zerohm
- 1/16W through 1W @ 70°C
- 200 ppm/°C TC (100 ppm for 1%)

* Manufactured in Japan



Resistance Range (ohms):

| | |
|--------|-----------------|
| 1/16W: | 1% - 10 - 1M |
| | 5% - 1 - 10M |
| 1/10W: | 1% - 1 - 10M |
| | 5% - 1 - 20M |
| 1/8W: | 1% - 1 - 10M |
| | 5% - 1 - 22M |
| | 10% - 11M - 22M |
| 1/4W: | 1% - 1 - 22M |
| | 5% - 10 - 10M |
| 1/2W: | 1% - 1 - 22M |
| | 5% - 10 - 1M |
| 1W: | 1% - 1 - 22M |
| | 5% - 10 - 1M |

Power Rating @ 70 °C (watts):

1/16, 1/10, 1/8, 1/4, 1/2, 1

Tolerance: 1% and 5%

Temperature Range:

-55 °C to +25 °C

Temperature Coefficient:

200 ppm/°C (normally ±5% Tol.)
100 ppm/°C (normally ±1% Tol.)
(values below 10 ohm, TCR is ±300 ppm/°C C603 (1/16W) available only in ±200 ppm/°C)

Working Voltage:

100V for 1/10W; 200V for 1/8W, 1/4W, 1/2W, and 1W; 50V for 1/6W

Maximum Overload Voltage:

100V for 1/6W; 200V for 1/10W; 400V for 1/8W, 1/4W, 1/2W and 1W

Materials of Construction:

Glass coated thick film element on 96% alumina substrate

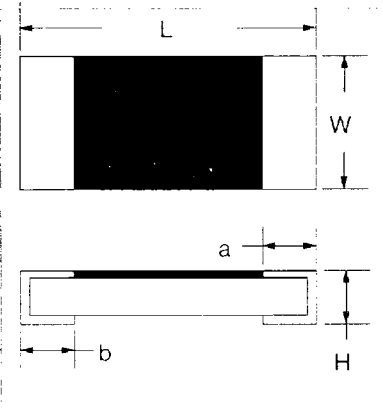
Terminations: 60/40 solder-plated

nickel barrier layer over palladium-silver.

SPECIFICATIONS:

DIMENSIONS (Inches and (mm)):

| Type | L | W | H | a | b |
|--------------------|---------------------------|---------------------------|--------------------------|--------------------------|---------------------------------------|
| CHF 1/16 (0603) | 0.062±0.004 (1.6±0.1) | 0.031±0.004 (0.8±0.1) | 0.020±0.004 (0.5±0.1) | 0.012±0.004 (0.3±0.1) | 0.008±0.004 (0.2±0.1) |
| CHF 1/10 (0805) | 0.079±0.008 (2.01±0.2) | 0.049±0.008 (1.25±0.2) | 0.020±0.004 (0.5±0.1) | 0.016±0.008 (0.4±0.2) | 0.12 ±0.008/-0.004 (0.3 ±0.2/-0.1) |
| CHF 1/8 (1206) | 0.126±0.008 (3.2±0.2) | 0.063±0.008 (1.6±0.2) | 0.024±0.004 (0.6±0.1) | 0.020±0.008 (0.5±0.2) | 0.12 ±0.008/-0.004 (0.3 ±0.2/-0.1) |
| CHF 1/4 (1210) | 0.126±0.008 (3.2±0.2) | 0.098±0.008 (2.5±0.2) | 0.24±0.004 (0.6±0.1) | 0.020±0.008 (0.5±0.2) | 0.12±0.008 (0.3±0.2) |
| CHF 1/2 (2010) | 0.200±0.008 (5.1±0.2) | 0.098±0.008 (2.5±0.2) | 0.024±0.004 (0.6±0.1) | 0.023±0.008 (0.6±0.2) | 0.12±0.008 (0.3±0.2) |
| CHF 1 (2512) | 0.256±0.008 (6.5±0.2) | 0.126±0.008 (3.2±0.2) | 0.024±0.004 (0.6±0.1) | 0.023±0.008 (0.6±0.2) | 0.12±0.008 (0.3±0.2) |



PERFORMANCE DATA

| Standard Test | Max ΔR (+0.1 ohm) |
|---|-----------------------------|
| Load Life (1000 hrs.): | ±3.0% |
| Terminal Strength (chip mounted in center of 90 mm long board deflected 5mm so as to exert pull on chip contacts for 10 sec.): | ±1.0% no cracking or damage |
| Moisture Resistance (10 cycles, 240 hrs) 95% R.H.: | ±2.0% |
| Temperature Cycle (-55°C/150°C 5 cycles): | ±1.0% |
| Effect of Solder (270°C, 10 sec.): | ±1.0% |
| Short Time Overload (5 sec @ V = 2.5 √PxR, V < 200 V for 1/10W, V < 400 V for 1/8W): | ±2.0% |
| Low Temperature Operation @ -55°C 1000 hrs.: | ±1.0% |
| Solderability 5 sec., 230°C: | 95% min. coverage |

PACKAGING: Tape

Paper Tape: 5000 pcs/reel = 1/16, 1/10, 1/8, 1/4W
Embossed Plastic Tape: 4000 pcs/reel = 1/4, 1/2, 1W

HOW TO ORDER:

Sample Part No. _____

CHF1/8 2203 J E LT

IRC Type _____

Resistance _____

Tolerance _____

Tape Type _____

E = Embossed Plastic P = Paper

Lead Tape & Reel _____