

FCF ARRAY

Thick Film Lead Free Chip Resistor Networks

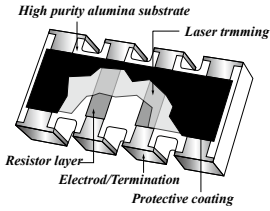


Fig 1. Construction of a Chip-R array (convex type)

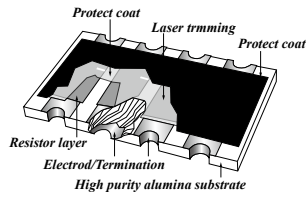


Fig 2. Construction of a Chip-R array (concave type)

FEATURES

- High density packaging provides higher productivity.
- Stable convex terminal reduces assembly costs.
- Compatible with flow and reflow soldering.
- RoHS compliant & Halogen Free.

APPLICATION

- Computer.
- Mobile phone.
- Camcorder.
- Portable audio.
- Battery charger.
- Hard Disk Driver.

PART NUMBER

| FCF Type □□□□ | 340 Size □□ | J Tolerance □ | T Packing □ | - Watt □ | 473 R Value □□□□ | TCR | Special Code |
|--------------------------------|--|------------------------------------|---|--------------|--|--|-----------------|
| FCF Thick Film Array | 240 0402x4 (8P4R Convex) 340 0603x4 (8P4R Convex) 220 0402x2 (4P2R Convex) 320 0603x2 (4P2R Convex) 370 0602x8 (16P8R Convex) 241 0402x4 (8P4R Concave) 341 0603x4 (8P4R Concave) 35R 0402x8 (10P8R Convex) | F = ± 1% J = ± 5% | Paper tape T = 5Kpcs V = 10Kpcs W = 20Kpcs | "-" Standard | XXXX >=1R 1% 4 digit 5% 3 digit ("-" means a blank) | No special code- Null special code- "-" | "Null" Standard |

RATING

| Type | Termination Construction | Normal Type Power Rating @ 70°C | Max. RCWV | Max. Overload Voltage | Resistance Tolerance (%) | Temperature Coefficient of Resistance (TCR; ppm/°C) | Resistance Range | | Standard Resistance Values |
|----------------------------|--------------------------|---------------------------------|-----------|-----------------------|--------------------------|---|------------------|-------------|----------------------------|
| | | | | | | | Min. | Max. | |
| FCF220 4P2R/0402x2 | Convex | 1/16W | 25V | 50V | ± 5%(J) | ± 300 ± 400 | 0Ω, 10Ω 3Ω | 1MΩ 9.1Ω | |
| FCF320 4P2R/0603x2 | Convex | 1/10W | 50V | 100V | ± 5%(J) ± 1%(F) | ± 200 -300~+500 | 0Ω, 10Ω 1Ω | 1MΩ 9.1Ω | |
| FCF240 8P4R/0402x4 | Convex | 1/16W | 50V | 100V | ± 5%(J) ± 1%(F) | ± 200 -300~+500 | 0Ω, 10Ω 3Ω | 1MΩ 9.1Ω | |
| FCF340 8P4R/0603x4 | Convex | 1/10W | 50V | 100V | ± 5%(J) ± 1%(F) | ± 200 -300~+500 | 0Ω, 10Ω 1Ω | 1MΩ 9.1Ω | E-24 |
| FCF241 8P4R/0402x4 | Concave | 1/16W | 25V | 50V | ± 5%(J) ± 1%(F) | ± 300 | 0Ω, 3Ω | 1MΩ | |
| FCF341 8P4R/0603x4 | Concave | 1/10W | 50V | 100V | ± 5%(J) ± 1%(F) | ± 200 | 0Ω, 10Ω | 1MΩ | |
| FCF35R 10P8R/0402x8 | Convex | 1/16W | 25V | 50V | ± 5%(J) | ± 200 | 10Ω | 100KΩ | |
| FCF370 10P8R/0602x8 | Convex | 1/16W | 50V | 100V | ± 5%(J) ± 1%(F) | ± 200 | 0Ω, 10Ω | 100KΩ | |

Jumper :

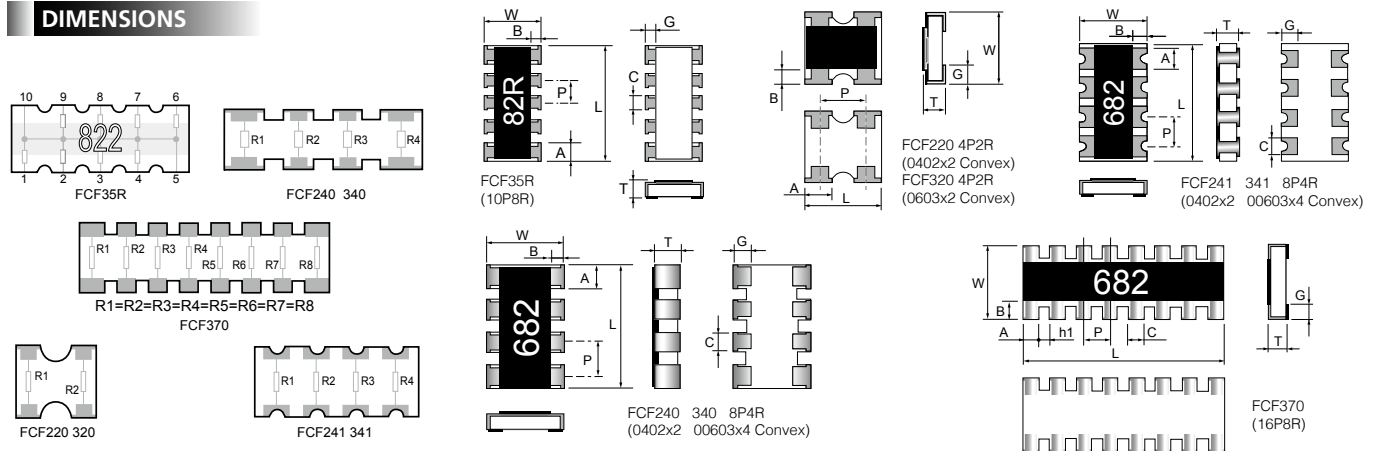
- Maximum resistance Rmax < 50mΩ.

Note :

(1) RCWV = (P × R)^{1/2} or Max. RCWV listed above, whichever is lower.

RCWV : Rated Continue Working Voltage(V) · P : Rated Power(W) · R : Resistance Value(Ω)

DIMENSIONS



unit: mm

| Type | L | W | T | B | G | P | C | A | h1 |
|--------|-----------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| FCF220 | 1.00±0.10 | 1.00±0.10 | 0.35±0.10 | 0.20±0.15 | 0.25±0.17 | 0.65±0.10 | - | 0.34±0.10 | - |
| FCF240 | 2.00±0.10 | 1.00±0.10 | 0.45±0.10 | 0.20±0.10 | 0.25±0.10 | 0.50±0.05 | 0.30±0.05 | 0.40±0.10 | - |
| FCF241 | 2.00±0.10 | 1.00±0.10 | 0.45±0.10 | 0.20±0.15 | 0.25±0.10 | 0.50±0.05 | 0.25±0.05 | 0.25±0.05 | - |
| FCF320 | 1.60±0.20 | 1.50±0.10 | 0.50±0.10 | 0.30±0.15 | 0.30±0.15 | 1.00±0.10 | - | 0.60±0.10 | - |
| FCF340 | 3.20±0.20 | 1.60±0.10 | 0.50±0.10 | 0.30±0.20 | 0.30±0.20 | 0.80±0.10 | 0.45±0.10 | 0.60±0.15 | - |
| FCF341 | 3.20+0.20/-0.10 | 1.60+0.20/-0.10 | 0.60±0.10 | 0.35±0.15 | 0.50±0.15 | 0.80±0.10 | 0.50±0.15 | 0.60±0.15 | - |
| FCF35R | 3.30±0.20 | 1.60±0.15 | 0.55±0.10 | 0.40±0.15 | 0.40±0.15 | 0.64±0.05 | 0.40±0.15 | 0.50±0.05 | - |
| FCF370 | 4.00±0.20 | 1.60±0.15 | 0.45±0.10 | 0.30±0.25 | 0.30±0.20 | 0.50±0.20 | 0.30±0.10 | 0.40±0.20 | 0.20±0.10 |

MLCC

Chip R

Coil