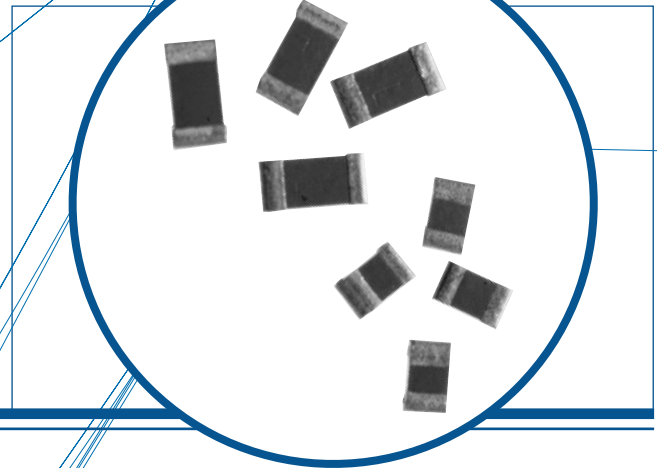


# Precision Surface Mount Resistor

PCF Series

- **Wide ohmic range - 10 ohms to 2M ohms**
- **Tolerance down to 0.05%**
- **TCR to 5ppm/°C**



## Electrical Data

Type	TCR (ppm/°C)	Power (Watts)	Working Voltage (Volts)	Overload Voltage (Volts - Max)	Ohmic Value Range		
					0.5%	0.1%	0.05%
PCF0402	100	1/16	25	50	10R-97R6		
PCF0402	25	1/16	25	50	100R-100K	100R-100K	
PCF0603	50	1/16	75	150	10R-97R6		
PCF0603	25	1/16	75	150	100R-360K	100R-332K	
PCF0805	50	1/10	100	200	10R-97R6		
PCF0805	25	1/10	100	200	100R-1M0	100R-1M0*	
PCF0805	10	1/10	100	200	100R-100K	100R-100K	
PCF0805	5	1/10	100	200	100R-100K	100R-100K	100R-100K
PCF1206	50	1/8	150	300	10R-49R9		
PCF1206	25	1/8	150	300	10R-1M0	10R-1M0	
PCF1206	10	1/8	150	300	100R-249K	100R-249K	100R-200K
PCF1206	5	1/8	150	300	100R-249K	100R-249K	100R-200K
PCF1210	25	1/4	200	400	51R-2M0	51R-2M0	
PCF1210	10	1/4	200	400	100R-330K	100R-330K	
PCF1210	5	1/4	200	400	100R-200K	100R-200K	

\* 10R-97R6 is available upon request.

## Physical Data

### Dimensions (mm)

Type	L	W	T	C	A
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### General Note

TT electronics reserves the right to make changes in product specification without notice or liability. This data and is considered accurate at time of going to print.

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PCF Series



## Performance Data

Parameter	Conditions	Maximum Change
Load Life	1,000 hrs. @ 70°C ±2°C	±0.25% (+0.05 ohms) Max
Humidity	1,000 hrs. @ 40°C ±2°C 90 - 95% RH	±0.25% (+0.05 ohms) Max
Temperature Cycle	5 Cycles -55°C to 125°C -55°C 30 Min. then Room Temp. 15 Min. +125°C 30 Min. then Room Temp. 15 Min.	±0.1% (+0.05 ohms)
Low Temperature Exposure	1,000 hrs. @ -55°C +3°C	±0.25% (+0.05 ohms)
High Temperature Operation	1,000 hrs. @ +125°C +3°C	±0.25% (+0.05 ohms)
Short Time Overload	5 seconds @ 2.5 x Rated Power	±0.1% (+0.05 ohms)
Effects of Solder Heat		
Drip Method	10 ± seconds @ 270°C ±5°C	±0.1% (+0.05 ohms)
Reflow Method	40 seconds @ 240°C ±5°C	±0.1% (+0.05 ohms)
Hand Solder	3 ± 1 second @ 300°C ±5°C	±0.1% (+0.05 ohms)
Solderability	3.0 ± seconds @ 235°C ±5°C	95% Minimum Coverage

### Packaging

All chips are tape mounted on standard 8mm tape reel, as IEC publication 286-3. 180mm (7 Inch) reel carries 5000 pieces.