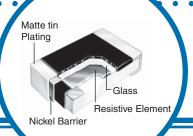
Precision Thin Film Nichrome **Chip Resistor**



PCF Series

- TCR to ±5 ppm/°C
- Tolerances to ±0.05%
- · Available in 8 standard sizes
- Wide ohmic range 10Ω to $2.0M\Omega$
- · RoHS compliant Pb-free terminations



Electrical Data

Size	Ohmic Range (Ω)	Resistance Tolerance	TCR (ppm/°C)	Rated Power at 70°C (mW)	Max Working Voltage (volts)	Max Overload Voltage (volts)
0201	33 - 22K 10 - 30	±0.5% ±1%	±25 ±100	50	15	30
0402	50 - 2K 50 - 12K 10 - 200K	±0.01%, ±0.05%, ±0.1%, ±0.25%, ±0.5% ±0.01%, ±0.05%, ±0.1%, ±0.25%, ±0.5% ±0.1%, ±0.25%, ±0.5%, ±1%	±5 ±10, ±15, ±25, ±50 ±25, ±50	62.5	25	50
0603	50 - 8K 25 - 100K 4.7 - 150K 4.7 - 800K 2 - 4.6	±0.01%, ±0.05%, ±0.1%, ±0.25%, ±0.5% ±0.01%, ±0.05%, ±0.1%, ±0.25%, ±0.5% ±0.05% ±0.1%, ±0.25%, ±0.5%, ±1% ±0.25%, ±0.5%, ±1%	±5 ±10, ±15, ±25, ±50 ±25, ±50 ±25, ±50 ±25, ±50	5, ±25, ±50 25, ±50 62.5 25, ±50		100
0805	50 - 16K 25 - 200K 4.7 - 500K 4.7 - 2M 1 - 4.6	±0.01%, ±0.05%, ±0.1%, ±0.25%, ±0.5% ±0.01%, ±0.05%, ±0.1%, ±0.25%, ±0.5% ±0.05% ±0.1%, ±0.25%, ±0.5%, ±1% ±0.25%, ±0.5%, ±1%	±5 ±10, ±15, ±25, ±50 ±25, ±50 ±25, ±50 ±25, ±50	100	100	200
1206	50 - 30K 25 - 500K 4.7 - 1M 1 - 4.6 1M - 2M	±0.01%, ±0.05%, ±0.1%, ±0.25%, ±0.5% ±0.01%, ±0.05%, ±0.1%, ±0.25%, ±0.5% ±0.05%, ±0.1%, ±0.25%, ±0.5%, ±1% ±0.25%, ±0.5%, ±1% ±0.25%, ±0.5%, ±1%	±5 ±10, ±15, ±25, ±50 ±25, ±50 ±25, ±50 ±25, ±50	125	150	300
1210	100 - 330K 51R0 - 2.0M	±0.1%, ±0.5% ±0.1%, ±0.5%	±5, ±10 ±25	250	200	400
2010	50 - 30K 25 - 500K 4.7 - 1M 1 - 4.6 1M - 2M	±0.01%, ±0.05%, ±0.1%, ±0.25%, ±0.5% ±0.01%, ±0.05%, ±0.1%, ±0.25%, ±0.5% ±0.05%, ±0.1%, ±0.25%, ±0.5%, ±1% ±0.25%, ±0.5%, ±1% ±0.25%, ±0.5%, ±1%	±5 ±10, ±15, ±25, ±50 ±25, ±50 ±25, ±50 ±25, ±50	250	150	300
2512	50 - 50K 25 - 500K 4.7 - 1M 1 - 4.6, 1M - 2M	±0.01%, ±0.05%, ±0.1%, ±0.25%, ±0.5% ±0.01%, ±0.05%, ±0.1%, ±0.25%, ±0.5% ±0.05%, ±0.1%, ±0.25%, ±0.5%, ±1% ±0.25%, ±0.5%, ±1%	±5 ±10, ±15, ±25, ±50 ±25, ±50 ±25, ±50	500	150	300

General NoteIRC reserves the right to make changes in product specification without notice or liability. All information is subject to IRC's own data and is considered accurate at time of going to print.



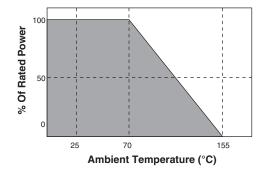
Precision Thin Film Nichrome Chip Resistor



Environmental Data

Took Condition		Took Makka d	Performance		
Test Condition	ns	Test Method	Tolerance ≤ 0.05%	Tolerance > 0.05%	
Short-time Over	oad	JIS-C-5202-5.5 5 Seconds at 2.5 X Rated Voltage (not to exceed 2 X Max Voltage)	±0.05% (+0.05Ω)	±0.5% (+0.05Ω)	
Thermal Shoo	k	MIL-STD-202 Method 107 100 Cycles -55°C to 150°C	±0.05% (+0.05Ω)	±0.25% (+0.05Ω)	
Humidity (Steady	State)	MIL-STD-202 Method 103 1000 Hours 40°C 90-95% RH 1.5 Hours On / 0.5 Hours Off Rated Voltage	±0.05% (+0.05Ω)	±0.3% (+0.05Ω)	
Load Life	R ≤ 7.0KΩ	MIL-STD-202 Method 108 1000 Hours 70°C	±0.05% (+0.05Ω)	±0.2% (+0.05Ω)	
	R > 7.0KΩ	1.5 Hours On / 0.5 Hours Off Rated Voltage, Rated Power	±0.5% (+0.05Ω)	±0.5% (+0.05Ω)	
High Temperature E	xposure	JIS-C-5202-7.2 96 Hours 155°C	±0.05% (+0.05Ω)	±0.2% (+0.05Ω)	
Low Temperature Op	peration	JIS-C-5202-7.2 96 Hours 155°C	±0.05% (+0.05Ω)	±0.2% (+0.05Ω)	
Resistance to Solde	er Heat	MIL-STD-202 Method 210 10 ±1 Seconds 260°C	±0.05% (+0.05Ω)	±0.2% (+0.05Ω)	
Solderability		MIL-STD-202 Method 208 3 ±0.5 Seconds 235°C	95% Min Coverage		

Power Derating Curve



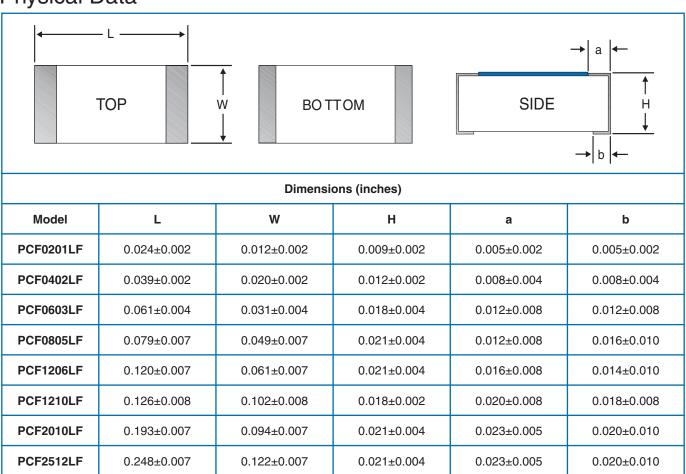
Packaging Data

Chip Size	Таре Туре	Reel Quantity	
0201	Paper	5,000	
0402	Paper	10,000	
0603	Paper 5,000		
0805	Paper 5,000		
1206	Paper	5,000	
1210	Paper or Plastic	5,000	
2010	Plastic 4,000		
2512	Plastic	4,000	

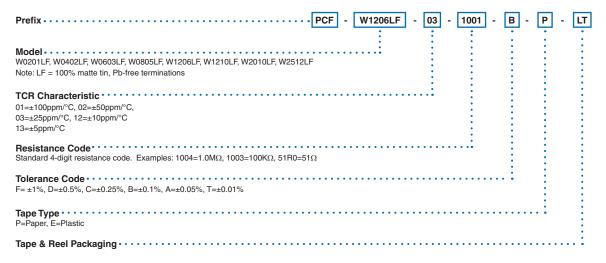
Precision Thin Film Nichrome Chip Resistor



Physical Data



Ordering Data



For additional information or to discuss your specific requirements, please contact our Applications Team using the contact details below.

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