Chip Resistor									
 PCF Series • TCR to ±5 ppm/°C • Tolerances to ±0.05% • Available in 8 standard sizes • Wide ohmic range 10Ω to 2.0MΩ • 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 $\pm 10, \pm 15, \pm 25, \pm 50$ $\pm 25, \pm 50$ $\pm 25, \pm 50$ $\pm 25, \pm 50$	62.5	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 $\pm 10, \pm 15, \pm 25, \pm 50$ $\pm 25, \pm 50$ $\pm 25, \pm 50$ $\pm 25, \pm 50$	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 $\pm 10, \pm 15, \pm 25, \pm 50$ $\pm 25, \pm 50$ $\pm 25, \pm 50$ $\pm 25, \pm 50$	125	150	300			
1210	100 - 330K 51R0 - 2.0M	±0.1%, ±0.5% ±0.1%, ±0.5%	±5, ±10 ±25	250	200	400			

±5

 $\pm 10, \pm 15, \pm 25, \pm 50$

±25, ±50

±25, ±50

±25, ±50

±5

 $\pm 10, \pm 15, \pm 25, \pm 50$

±25, ±50

±25, ±50

250

500

150

150

±0.01%, ±0.05%, ±0.1%, ±0.25%, ±0.5%

±0.01%, ±0.05%, ±0.1%, ±0.25%, ±0.5%

 $\pm 0.05\%, \pm 0.1\%, \pm 0.25\%, \pm 0.5\%, \pm 1\%$

±0.25%, ±0.5%, ±1%

±0.25%, ±0.5%, ±1%

±0.01%, ±0.05%, ±0.1%, ±0.25%, ±0.5%

±0.01%, ±0.05%, ±0.1%, ±0.25%, ±0.5%

 $\pm 0.05\%, \pm 0.1\%, \pm 0.25\%, \pm 0.5\%, \pm 1\%$

±0.25%, ±0.5%, ±1%

General Note

2512

2010

IRC 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.

50 - 30K

25 - 500K

4.7 - 1M

1 - 4.6

1M - 2M

50 - 50K

25 - 500K

4.7 - 1M

1 - 4.6, 1M - 2M

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300

300





Precision Thin Film Nichrome Chip Resistor

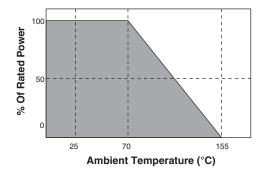
Precision Thin Film Nichrome Chip Resistor



Environmental Data

Test Condition		Test Method	Performance			
Test Condition	15	Test Method	$\textbf{Tolerance} \leq \textbf{0.05\%}$	Tolerance > 0.05%		
Short-time Overl	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 Shoc	k	MIL-STD-202 Method 107 100 Cycles -55°C to 150°C	±0.05% (+0.05Ω)	±0.25% (+0.05Ω)		
Humidity (Steady s	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	$R \leq 7.0 K \Omega$	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 Exposure		JIS-C-5202-7.2 96 Hours 155°C	±0.05% (+0.05Ω) ±0.2% (+0.05			
Low Temperature Operation		JIS-C-5202-7.2 96 Hours 155°C	±0.05% (+0.05Ω) ±0.2% (+0.05			
Resistance to Solder Heat		MIL-STD-202 Method 210 10 ±1 Seconds 260°C	±0.05% (+0.05Ω) ±0.2% (+0.05			
Solderability		MIL-STD-202 Method 208 3 ±0.5 Seconds 235°C	95% Min Coverage			

Power Derating Curve



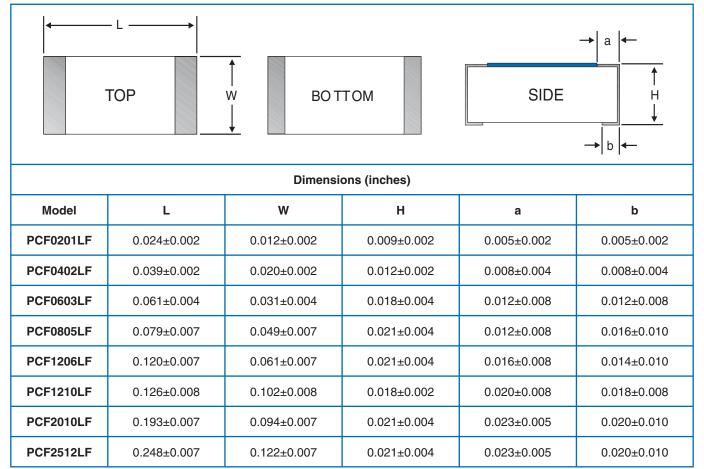
Packaging Data

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

Prefix · · · · · PCF - [W1206LF	- 03 -	1001 -	в -	P -	LT
				:	:	:
Model - W0201LF, W0402LF, W0603LF, W0805LF, W1206LF, W1210LF, W2010LF, W2512LF Note: LF = 100% matte tin, Pb-free terminations	•••••				:	•
TCR Characteristic		:		:	:	:
01=±100ppm/°C, 02=±50ppm/°C, 03=±25ppm/°C, 12=±10ppm/°C 13=±5ppm/°C				•		•
Resistance Code* Standard 4-digit resistance code. Examples: $1004=1.0M\Omega$, $1003=100K\Omega$, $51R0=51\Omega$	• • • • • • • • • • •	••••	••••			
Tolerance Code F= ±1%, D=±0.5%, C=±0.25%, B=±0.1%, A=±0.05%, T=±0.01%	• • • • • • • • • •	• • • • • • • • •		•••		
Tape Type P=Paper, E=Plastic	• • • • • • • • • •	••••	••••	••••	.:	•
Tape & Reel Packaging · · · · · · · · · · · · · · · · · · ·	•••••	•••••	•••••	• • • • • •	••••	:

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

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