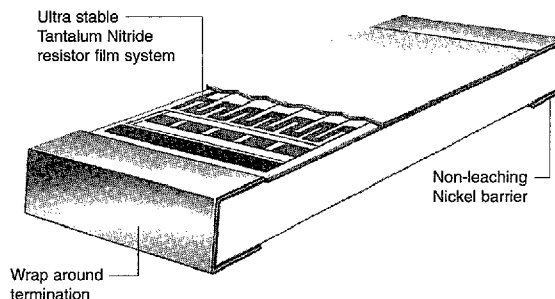




TANFILM® PRECISION CHIP RESISTORS

PFC SERIES

- Qualified to MIL-R-55342, Char. E, H, K, & M
- Passivated TaNFilm® element
- Wrap around termination
- TCR to 5 ppm/°C
- Tolerance to 0.02%
- Termination contains non-leaching nickel barrier



The IRC TaNFilm® Precision Chip Resistor provides the high temperature and ultra stable performance of our Tantalum Nitride Resistive Film System in the International Standard 1206 and 0805 sized chip resistor configuration.

Tantalum Nitride's inherent high temperature and power handling capabilities allow the 1206 sized part to dissipate 1/4 watt continuously without degradation.

Materials and processes have been selected to insure that the initial precision is maintained in the harshest surface mount soldering environment. In addition, the unique characteristics of

our passivated, Tantalum Nitride film insure ongoing environmental and long term life stability surpassing all MIL-R-55342 requirements by a wide margin. Wrap around termination with a leach resistant nickel barrier under a solder coating ensures high integrity solder connections.

Standard packaging is 8mm plastic tape and reel per EIA Standard RS481. The packaging materials provide ESD protection. Anti Static bulk and waffle pack packaging is also available.

SPECIFICATIONS:

Resistance Values (ohms)	W1206	Commercial	5 - 1M
		Military 1% 0.1%	50 - 125K 100 - 125K
	W0805	Commercial	10 - 125K
		Military 1% 0.1%	50 - 125K 100 - 125K
Resistance Tolerances (±%)			1.0 0.5 0.25 0.1 0.05 0.02
Temperature Coefficient of Resistance			±5ppm/°C to ±100ppm/°C
Temperature Range			-65°C to +150°C
Power Rating	W1206	Commercial	250mw @ 70°C 125mw @ 70°C
	W0805	Commercial	100mw @ 70°C 50mw @ 70°C
Voltage Rating	W1206	Commercial	200 volts max 100 volts max
	W0805	Commercial	100 volts max 40 volts max
Noise			Less than -25 db
Termination			Solder over nickel
Substrate			High purity alumina

Environment	ΔR per MIL-R-55342 Char. E	PFC 1206 Performance Typical	Max.
Thermal Shock	0.10%	0.02%	0.10%
Low Temperature Operation	0.10%	0.01%	0.05%
Short Time Overload	0.10%	0.01%	0.05%
High Temp Exposure	0.10%	0.03%	0.10%
Effects of Solder	0.20%	0.01%	0.10%
Moisture Resistance	0.20%	0.03%	0.10%
Life	0.50%	0.03%	0.10%

DIMENSIONS (Inches):

	A	B	C	D
Model	A	B	C	D
W1206	0.126±0.006	0.015±0.005	0.024±0.004	0.063±0.005
W0805	0.081±0.005	0.015±0.005	0.024±0.004	0.050±0.005

HOW TO ORDER:

Sample Part No.:

W1206 R 03 1001 B

Model

W1206 - MIL-R-55342/07 Style RM1206

W0805 - MIL-R-55342/06 Style RM0705

Terminal Designator

R=Solder Coated

Characteristic

CODE	CLASSIFICATION	TCR (ppm/°C)	CODE	CLASSIFICATION	TCR (ppm/°C)
01	Commercial Grade	±100	12	Commercial Grade	±10
02	Commercial Grade	±50	13	Commercial Grade	±5
03	Commercial Grade	±25	04	Military Screening	±300
10	Commercial Grade	±20	05	Military Screening	±100
11	Commercial Grade	±15	06	Military Screening	±50
			07	Military Screening	±25

Tolerance

Q: ±0.02%

A=±0.05%, B=±0.1%, C=±0.25%, D=±0.5%, F=±1%, G=±2%

Resistance

1st 3 significant figures plus 4th digit multiplier. Examples: 2203 = 220,000 ohms, 51R0 = 51 ohms