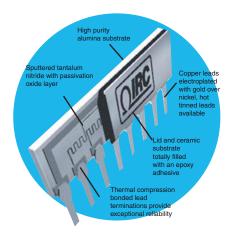
## Resistors

## TaNFilm® Precision SIP Network **Commercial and MIL Qualified**

#### 4700 Series

- Inherent reliability
- MIL-PRF-83401 qualified
- Custom configuration available
- Bonded leads not susceptible to solder reflow problems
- Absolute tolerance to ±0.1% ratio accuracy to ±0.01%
- Absolute TCR to ±15ppm/°C TC tracking to ±5ppm/°C







All Pb-free parts comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

The IRC 4700 Series is the ultimate combination of precision performance, reliability, and long term stability in a low profile, TaNFilm® SIP package. Rugged welded lead construction combined with the inherent passivation characteristics of tantalum nitride ensure superior ongoing performance over the installed life of the part.

Visit our website to view a graphical demonstration of IRC's TaNFilm reliability and performance features.

#### Commercial Product Capability Data

Schematic	Resistance Range (Ω)	Absolute Tolerance	Ratio Tolerance	Absolute TCR (ppm/°C)	Tracking TCR (ppm/°C)	Element Power (mW)
	49.9 - 99.9	F, G, J	F, G	±50; ±100; ±300	±20	
С	100 - 200	B, D, F, G, J	D, F, G	±25; ±50; ±100; ±300	±15	100
	201 - 1.9K	B, D, F, G, J	B, D, F, G	±25; ±50; ±100; ±300	±10	120
	2.0K - 200K	B, D, F, G, J	A, B, D, F, G	±15; ±25; ±50; ±100; ±300	±5	
	20 - 49.9	F, G, J	F, G	±50; ±100; ±300	±20	
	50.0 - 199	D, F, G, J	B, D, F, G ±25; ±50; ±100; ±300		±5	
G	200 - 999	B, D, F, G, J	A, B, D, F, G	±25; ±50; ±100; ±300	±5	200
	1.0K - 100K	B, D, F, G, J	T, Q, A, B, D, F, G	±15; ±25; ±50; ±100; ±300	±5	
	101K - 400K	B, D, F, G, J	A, B, D, F, G	±15; ±25; ±50; ±100; ±300	±5	
F	49.9 - 99.9	F, G, J	F, G	±50; ±100; ±300	±20	
	100 - 199	F, G, J	D, F, G	±25; ±50; ±100; ±300	±10	400
	200 - 999	B, D, F, G, J	B, D, F, G	±25; ±50; ±100; ±300	±5	120
	1.0K - 200K	B, D, F, G, J	A, B, D, F, G	±15; ±25; ±50; ±100; ±300	±5	

Consult factory for tighter tolerances and TCR. Custom circuits and special testing available.

4700 Series



## MIL-PRF-83401 QPL Capability Data

Schematic	Resistance Range	Absolute Tolerance	Element Power (mW)	Size	Characteristic	
C,G	100 - 100K	B, F, G, J	120	6, 8, 10	M, H, K	

## Package Specification Data

Schematic	Package Power (mW)		Voltage Rating	Temperature Range	Substrate	Lead Finish	Noise	
	6-pin	8-pin	10-pin					
C, F (MIL and Commercial)	600	840	1080	√PxR not to	-65°C to +125°C	99.6% Alumina	Gold Plate (60/40 Sn/Pb available)	<-30dB
G (MIL)	360	480	600	exceed 100V				
G (Commercial)	600	800	1000					

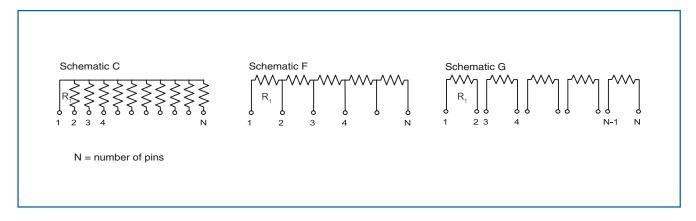
## **Environmental Data**

Test Per MIL-PRF-83401	MIL-P	RF-83401 ∆R L	imits	TaNFilm® Test Data ∆R		
Test Per MIL-PRF-63401	М	К	н	Max	Typical	
Thermal Shock And Power Conditioning	±0.7%	±0.7%	±0.5%	±0.10%	±0.02%	
Low Temperature Operation	±0.5%	±0.25%	±0.1%	±0.05%	±0.02%	
Short-term Overload	±0.5%	±0.25%	±0.1%	±0.1%	±0.02%	
Terminal Strength	±0.25%	±0.25%	±0.1%	±0.1%	±0.02%	
Resistance To Solder Heat	±0.25%	±0.25%	±0.1%	±0.1%	±0.02%	
Moisture Resistance	±0.5%	±0.5%	±0.4%	±0.1%	±0.02%	
Shock	±0.25%	±0.25%	±0.25%	±0.1%	±0.02%	
Vibration	±0.25%	±0.25%	±0.25%	±0.1%	±0.02%	
Life	±2.0%	±0.5%	±0.5%	±0.1%	±0.02%	
High Temperature Exposure	±1.0%	±0.5%	±0.2%	±0.1%	±0.02%	
Low Temperature Storage	±0.5%	±0.25%	±0.1%	±0.1%	±0.02%	
25°C Double Load	±2.0%	±0.5%	±0.5%	±0.05%	±0.02%	

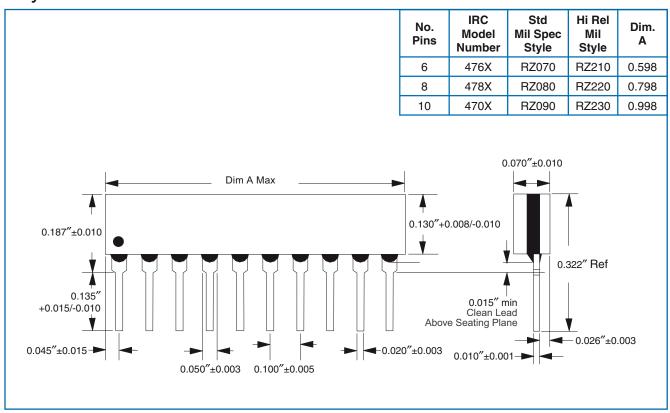




#### Schematic Data



## Physical Data

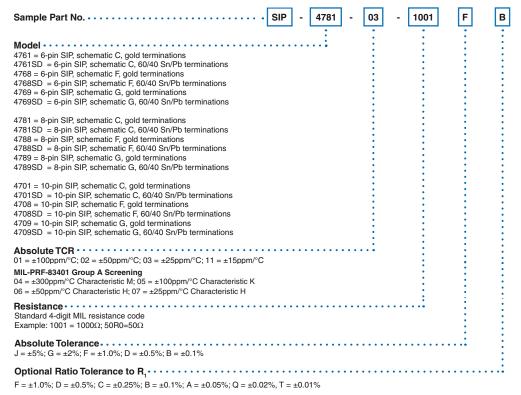


# TaNFilm® Precision SIP Network Commercial and MIL Qualified



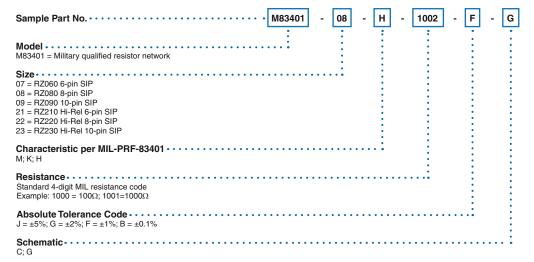


## Commercial and MIL-Screened (Non-QPL) Ordering Data



Custom schematics and screening available.

## Ordering Data - Military (MIL-PRF-83401)



Standard termination is gold plate. Contact factory for optional 60/40 Sn/Pb hot solder dip finish.

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