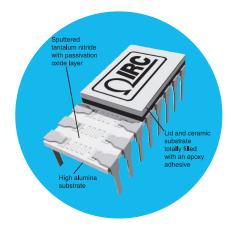
Resistors

TaNFilm[®] Precision DIP Network Commercial and MIL Qualified

1900 Series

- Inherent reliability
- MIL-PRF-83401 qualified
- Custom configuration available
- Bonded leads not susceptible to solder reflow problems
- Absolute tolerance to ±0.1% / ratio tolerance to ±0.05%
- Absolute TCR to ±15ppm/°C / ratio tracking to ±5ppm/°C





All Pb-free parts comply with EU Directive 2011/65/EU (RoHS2)

The IRC 1900 Series is the ultimate combination of precision performance, reliability, and long term stability in a low profile, TaNFilm[®] DIP 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.

Schematic	Resistance Range (Ω)	Absolute Tolerance	Optional Ratio Tolerance	Absolute TCR (ppm/°C)	Tracking TCR (ppm/°C)	Military Characteristic	Element Power (mW)	
A Commercial	10 - 49.9	F, G, J	F, G	±50; ±100; ±300	±20			
	50.0 - 199	F, G, J	D, F, G	±25; ±50; ±100; ±300 ±10		N1/A		
	200 - 999	999 B, D, F, G, J A, B, D, F, G ±25; ±50; ±100; ±300 ±5		±5	N/A	200		
	1.0K - 400K	B, D, F, G, J A, B, D, F, G ±15; ±25; ±50; ±100; ±300		±5				
A Military	50 - 100K	B, D, F, G, J	N/A	N/A	N/A	Н, К, М		
B Commercial	50 - 149	B, D, F, G, J	B, D, F, G	±300; ±100	±50			
	150 - 249	B, D, F, G, J	B, D, F, G	±300; ±100; ±50	±20	N1/A	100	
	250 - 999	B, D, F, G, J	B, D, F, G	±25; ±50; ±100; ±300	±5	N/A		
	1.0K - 200K B, D,		B, D, F, G	±15; ±25; ±50; ±100; ±300 ±5				
B Military	50 - 70K	B, D, F, G, J	N/A	N/A	N/A	Н, К, М		

Electrical Data

Package Specification Data

Schematic	Package Power (W)		Voltage Rating	Temperature Range	Substrate	Lead Finish	Noise
	14-pin	16-pin		-55°C to +150°C	99.6% Alumina	Gold Plate (60/40 Sn/Pb available)	<-30dB
A	1.4	1.6	√ PxR not to exceed 100V				
В	1.3	1.5					

General Note

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

BI Technologies IRC Welwyn

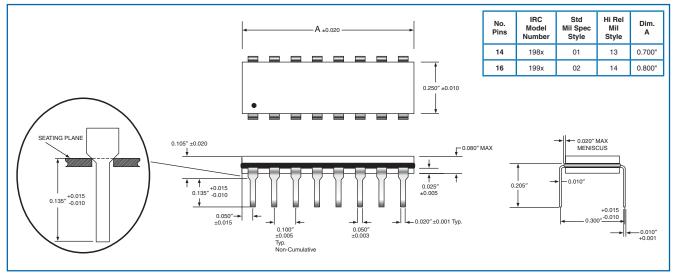


1900 Series

Environmental Data

Test Per MIL-PRF-83401	MIL-PRF-	83401 Limits (E	TaNFilm Test Data (Delta R%)		
Test Per MIL-PRF-63401	М	к	н	Мах	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	0.1	0.02
Short-term Overload	0.5	0.25	0.1	0.05	0.02
Terminal Strength	0.25	0.25	0.25	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

Physical Data



General Note

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BI Technologies IRC Welwyn

1900 Series



F Α

Schematic Data Model 1998 Model 1989 Model 1999 Model 1987 RZ020, RZ140 RZ010, RZ130 RZ020, RZ140 RZ010, RZ130 Schematic B Schematic B Schematic A Schematic A Commercial and MIL-Screened MIL-PRF-83401 Ordering Data (Non-QPL) Ordering Data Prefix ••••••• DIP 1999 03 1001 в F Prefix····· M83401 01 к 1001 Specification Sheet 1987 = 14-pin DIP, schematic B, gold terminations 1987SD = 14-pin DIP, schematic B, 60/40 Sn/Pb terminations 01 = 14-pin DIP 02 = 16-pin DIP 1989 = 14-pin DIP, schematic A, gold terminations 1989SD = 14-pin DIP, schematic A, 60/40 Sn/Pb terminations 13 = 14-pin HI REL DIP 14 = 16-pin HI REL DIP 1998 = 16-pin DIP, schematic B, gold terminations 1998SD = 16-pin DIP, schematic B, 60/40 Sn/Pb terminations 1999 = 16-pin DIP, schematic A, gold terminations 1999SD = 16-pin DIP, schematic A, 60/40 Sn/Pb terminations Characteristic M, K, H Resistance Standard 4-digit MIL resistance code Example: 1001 = 1000Ω; 50R0=50Ω 01 = ±100ppm/°C; 02 = ±50ppm/°C; 03 = ±25ppm/°C; 11 = ±15ppm/°C MIL-PRF-83401 Group A Screening 04 = ±300ppm/°C Characteristic M; 05 = ±100ppm/°C Characteristic K Absolute Tolerance 06 = ±50ppm/°C Characteristic H; 07 = ±25ppm/°C Characteristic H $J = \pm 5\%$; $G = \pm 2\%$; $F = \pm 1.0\%$; $D = \pm 0.5\%$; $B = \pm 0.1\%$ Resistance Schematic. Standard 4-digit MIL resistance code Example: $1001 = 1000\Omega$; $50R0=50\Omega$ A = Isolated; B = Bussed Schematic Standard lead termination is gold plate. Contact factory for optional 60/40 Sn/Pb solder dip finish. $J = \pm 5\%$; $G = \pm 2\%$; $F = \pm 1.0\%$; $D = \pm 0.5\%$; $B = \pm 0.1\%$ $F = \pm 1.0\%$; $D = \pm 0.5\%$; $C = \pm 0.25\%$; $B = \pm 0.1\%$; $A = \pm 0.05\%$ Custom schematics and screening available.

General Note

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