TaNFilm[®] High Temperature DIP and SIP Networks



1900HT / 4700HT SERIES

- Inherent reliability
- Custom configurations available
- Bonded leads not susceptible to solder reflow problems
- Absolute tolerence to ±0.1% ratio accuracy to ±0.05%
- Absolute TCR to ±25 ppm/°C ratio tracking to ±5ppm/°C

The IRC 1900HT and 4700HT Series is the ultimate combination of precision performance, reliability, and long term stability in a low profile, TaNFilm[®] DIP and SIP packages. The rugged welded lead construction combined with the inherent passivation characteristics of tantalum nitride film insure superior continuous performance in high temperature applications over the installed life of the part.

Electrical Data

Package Type	Size	Schematic	Ohmic Range	Package Power	Element Power	Rated Voltage (not to exceed rated power)	Temperature Range
DIP	14	Isolated Schematic A	100 Ω to 100K Ω	1.12W	0.08W	100V	-55°C to +200°C
		Bussed Schematic B	1.00KΩ to 50KΩ				
	16	Isolated Schematic A	100Ω to 100KΩ	1.28W			
		Bussed Schematic B	1.00KΩ to 50KΩ				
SIP	6	Isolated Schematic G	50 Ω to 50K Ω	0.24W	0.08W	50V	
		Bussed Schematic C	2.00K Ω to 25K Ω				
	8	Isolated Schematic G	50Ω to 50KΩ	0.32W			
		Bussed Schematic C	2.00K Ω to 25K Ω				





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Physical Data



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Physical Data (continued)



Environmental Data

Environmental Test	Performance		
MIL-PRF-55342	Typical	Maximum	
Thermal Shock	±0.02%	±0.10%	
Short Time Overload	±0.02%	±0.05%	
High Temperature Exposure	±0.03%	±0.10%	
Effects of Solder	±0.01%	±0.10%	
Moisture Resistance	±0.03%	±0.10%	
Life (1000 hours, 200°C, no load)	±0.08%	±1.0%	
Life (1000 hours, 150°C, rated power)	±0.02%	±0.05%	

Ordering Data



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Power Derating Curve

