

## 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	М, Н, К	

# Package Specification Data

Schematic	Package Power (mW)			Voltage Rating	Temperature Range	Substrate	Lead Finish	Noise
	6-pin	8-pin	10-pin		-65°C to +125°C	99.6% Alumina	Gold Plate (60/40 Sn/Pb available)	<-30dB
C, F (MIL and Commercial)	600	840	1080	√PxR not to				
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	TaNFilm <sup>®</sup> Test Data $\Delta R$		
Test Per MIL-PRF-83401	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%	±0.05%	±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%

#### 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.

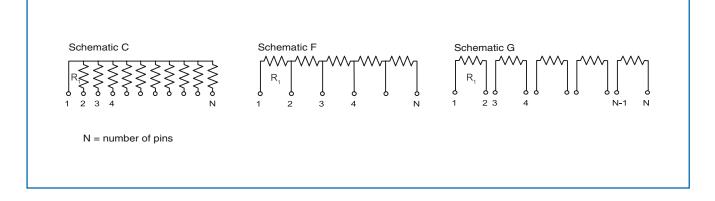
Downloaded from Arrow.com.

www.ttelectronics.com/resistors

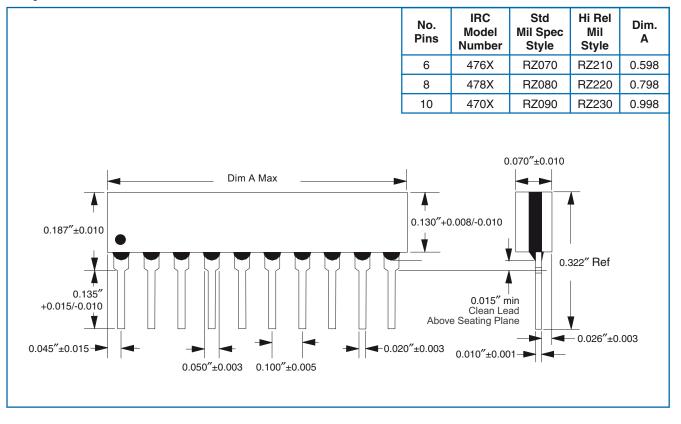


### 4700 Series

### Schematic Data



**Physical Data** 



#### 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

© TT Electronics plc

# TaNFilm<sup>®</sup> Precision SIP Network Commercial and MIL Qualified



### **4700 Series**

Commercial and MIL-Screened (Non-QPL) Ordering Data
Sample Part No
Model 4761 = 6-pin SIP, schematic C, gold terminations 4761 5D = 6-pin SIP, schematic C, 60/40 Sn/Pb terminations 4768 = 6-pin SIP, schematic F, gold terminations 4768 = 6-pin SIP, schematic G, 00/40 Sn/Pb terminations 4769 = 6-pin SIP, schematic G, 60/40 Sn/Pb terminations 4769 = 6-pin SIP, schematic G, 60/40 Sn/Pb terminations
4781 = 8-pin SIP, schematic C, gold terminations   4781SD = 8-pin SIP, schematic C, 60/40 Sn/Pb terminations   4788 = 8-pin SIP, schematic F, gold terminations   47885D = 8-pin SIP, schematic F, 60/40 Sn/Pb terminations   4788 = 8-pin SIP, schematic G, 60/40 Sn/Pb terminations   4788 = 8-pin SIP, schematic G, 60/40 Sn/Pb terminations   4789 = 8-pin SIP, schematic G, 60/40 Sn/Pb terminations   4789 = 8-pin SIP, schematic G, 60/40 Sn/Pb terminations   4789 = 8-pin SIP, schematic G, 60/40 Sn/Pb terminations
4701 = 10-pin SIP, schematic C, gold terminations   4701SD = 10-pin SIP, schematic F, gold terminations   4708 = 10-pin SIP, schematic F, gold terminations   4708SD = 10-pin SIP, schematic G, gold terminations   4709 = 10-pin SIP, schematic G, gold terminations   4709SD = 10-pin SIP, schematic G, 60/40 Sn/Pb terminations
Absolute TCR     )1 = ±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
36 = ±50ppm/°C Characteristic H; 07 = ±25ppm/°C Characteristic H Resistance Standard 4-digit MIL resistance code Example: 1001 = 1000Ω; 50R0=50Ω
Absolute Tolerance . J = ±5%; G = ±2%; F = ±1.0%; D = ±0.5%; B = ±0.1%
Optional Ratio Tolerance to $R_1$ F = ±1.0%; D = ±0.5%; C = ±0.25%; B = ±0.1%; A = ±0.05%; Q = ±0.02%, T = ±0.01%

Custom schematics and screening available.

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

Sample Part No	- 1002 - F - G
<b>Model</b> . M83401 = Military qualified resistor network	
Size 07 = RZ070 6-pin SIP 08 = RZ080 8-pin SIP 09 = RZ090 10-pin SIP 21 = RZ210 Hi-Rel 6-pin SIP 22 = RZ220 Hi-Rel 8-pin SIP 23 = RZ230 Hi-Rel 10-pin SIP	
Characteristic per MIL-PRF-83401	
Resistance · · · · · Standard 4-digit MIL resistance code Example: 1000 = 100Ω; 1001=1000Ω	
Absolute Tolerance Code . $J = \pm 5\%; G = \pm 2\%; F = \pm 1\%; B = \pm 0.1\%$	
Schematic	

C; G

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

#### 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.

Downloaded from Arrow.com.

www.ttelectronics.com/resistors