

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 | $\sqrt{P \times R}$ not to exceed 100V | -65°C to +125°C | 99.6% Alumina | Gold Plate (60/40 Sn/Pb available) | <-30dB |
| G (MIL) | 360 | 480 | 600 | | | | | |
| G (Commercial) | 600 | 800 | 1000 | | | | | |

Environmental Data

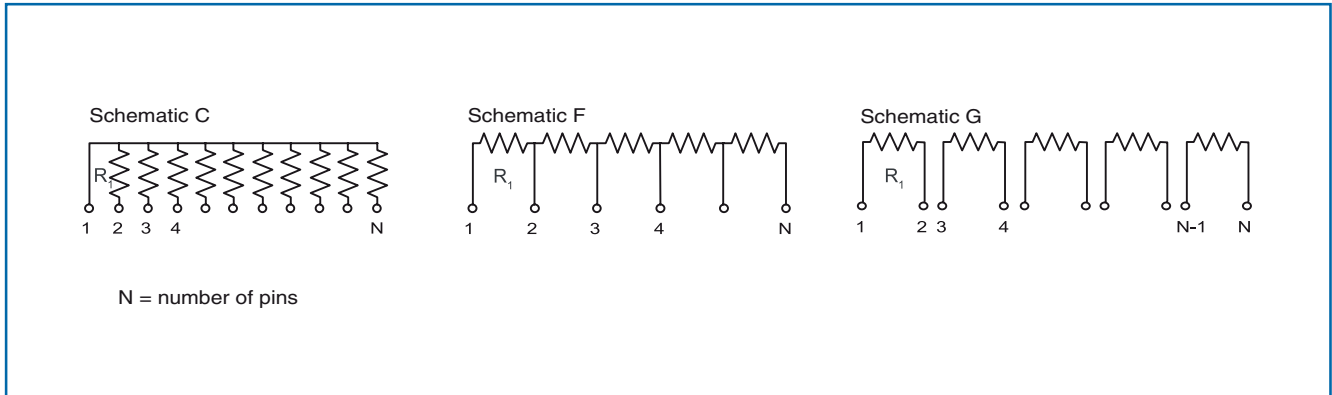
| Test Per MIL-PRF-83401 | MIL-PRF-83401 ΔR Limits | | | TaNFilm® Test Data ΔR | |
|--------------------------------------|---------------------------------|--------|--------|-------------------------------|---------|
| | M | K | H | Max | Typical |
| Thermal Shock And Power Conditioning | ±0.7% | ±0.7% | ±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% |

General Note

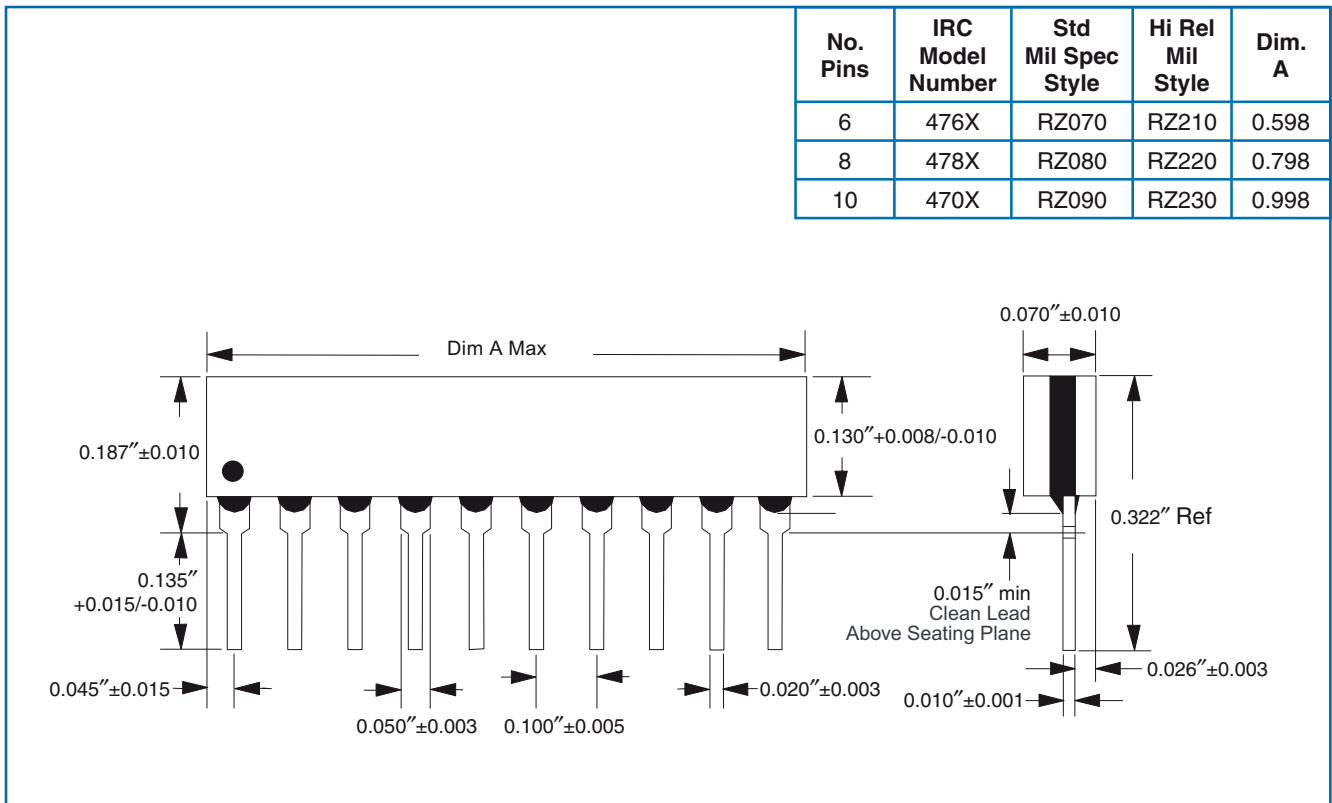
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Schematic Data



Physical Data



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

| | | | | | | | | | | | |
|--|--|---|-------------|---|-----------|---|-------------|--|----------|--|----------|
| Sample Part No. | SIP | - | 4781 | - | 03 | - | 1001 | | F | | B |
| Model | <p>4761 = 6-pin SIP, schematic C, gold terminations 4761SD = 6-pin SIP, schematic C, 60/40 Sn/Pb terminations 4768 = 6-pin SIP, schematic F, gold terminations 4768SD = 6-pin SIP, schematic F, 60/40 Sn/Pb terminations 4769 = 6-pin SIP, schematic G, gold terminations 4769SD = 6-pin SIP, schematic G, 60/40 Sn/Pb terminations</p> <p>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 4788SD = 8-pin SIP, schematic F, 60/40 Sn/Pb terminations 4789 = 8-pin SIP, schematic G, gold terminations 4789SD = 8-pin SIP, schematic G, 60/40 Sn/Pb terminations</p> <p>4701 = 10-pin SIP, schematic C, gold terminations 4701SD = 10-pin SIP, schematic C, 60/40 Sn/Pb terminations 4708 = 10-pin SIP, schematic F, gold terminations 4708SD = 10-pin SIP, schematic F, 60/40 Sn/Pb terminations 4709 = 10-pin SIP, schematic G, gold terminations 4709SD = 10-pin SIP, schematic G, 60/40 Sn/Pb terminations</p> | | | | | | | | | | |
| Absolute TCR | <p>01 = ±100ppm/°C; 02 = ±50ppm/°C; 03 = ±25ppm/°C; 11 = ±15ppm/°C</p> | | | | | | | | | | |
| MIL-PRF-83401 Group A Screening | <p>04 = ±300ppm/°C Characteristic M; 05 = ±100ppm/°C Characteristic K 06 = ±50ppm/°C Characteristic H; 07 = ±25ppm/°C Characteristic H</p> | | | | | | | | | | |
| Resistance | <p>Standard 4-digit MIL resistance code Example: 1001 = 1000Ω; 50R0=50Ω</p> | | | | | | | | | | |
| Absolute Tolerance | <p>J = ±5%; G = ±2%; F = ±1.0%; D = ±0.5%; B = ±0.1%</p> | | | | | | | | | | |
| Optional Ratio Tolerance to R₁ | <p>F = ±1.0%; D = ±0.5%; C = ±0.25%; B = ±0.1%; A = ±0.05%; Q = ±0.02%; T = ±0.01%</p> | | | | | | | | | | |

Custom schematics and screening available.

Ordering Data - Military (MIL-PRF-83401)

| | | | | | | | | | | | |
|---|--|---|-----------|---|----------|---|-------------|--|----------|--|----------|
| Sample Part No. | M83401 | - | 08 | - | H | - | 1002 | | F | | G |
| Model | <p>M83401 = Military qualified resistor network</p> | | | | | | | | | | |
| Size | <p>07 = RZ060 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</p> | | | | | | | | | | |
| Characteristic per MIL-PRF-83401 | <p>M; K; H</p> | | | | | | | | | | |
| Resistance | <p>Standard 4-digit MIL resistance code Example: 1000 = 100Ω; 1001=1000Ω</p> | | | | | | | | | | |
| Absolute Tolerance Code | <p>J = ±5%; G = ±2%; F = ±1%; B = ±0.1%</p> | | | | | | | | | | |
| Schematic | <p>C; G</p> | | | | | | | | | | |

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

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