



TaNCap™ SERIES

- Improves Signal Quality
- Reduces Unwanted Signal Transmissions
- Proven TaNSil® Thin Film Technology
- QSOP, SOIC, and TSSOP Packages
- Highly Integrated R-C Network
- High Frequency Design Available

IRC's TaNCap™ T filter networks are designed for the most demanding low pass filter applications. These TaNSil® technology thin film networks offer attenuation of high frequency signal components with minimal inductive effects. EMI/RFI reduction, improved signal quality and reduction of false triggers in digital circuits while minimizing insertion loss are characteristics of these silicon based filter networks.

The SOIC, QSOP, and TSSOP packages offer a high level of integration in today's most popular surface mount configurations. Up to 24 discrete components are replaced by one T filter network.

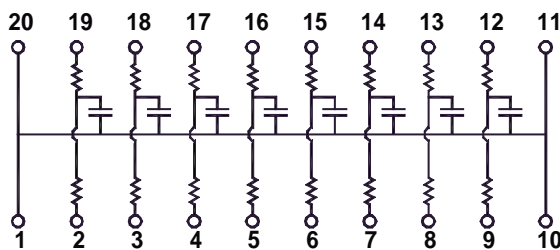
The TaNCap™ series of resistor-capacitor networks are manufactured using IRC's military and space proven tantalum nitride thin film technology.

For high reliability combined with superior performance, use IRC TaNCap™ T Filter networks for your most demanding, high speed analog and digital designs.

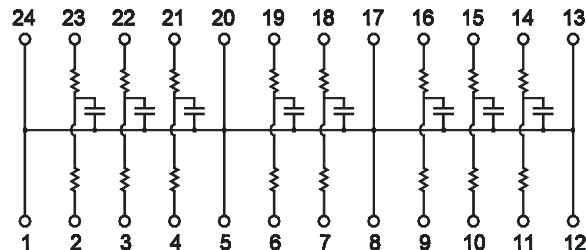
SPECIFICATIONS

| | Resistors | Capacitors | |
|---------------------------------------|------------------|--------------|---------------|
| Range | 10Ω to 100Ω | 10pF to 33pF | 34pF to 200pF |
| Tolerance (%) | ±10 | ±20 | ±10 |
| Breakdown Voltage (volts) | N/A | 200 to 100 | 100 to 25 |
| Operating Temp. Range (°C) | -55 to +125 | -55 to +125 | |
| TCR (ppm/°C) | ±100 | N/A | |
| Max. Power Dissipation (watts) | 0.1 per resistor | N/A | |

SCHEMATIC T



SCHEMATIC M



HOW TO ORDER

Sample Part Number: **GUS - QS20 T - 330 - K - 470 - M**

Family _____

Model _____

Resistor Code _____

Capacitor Code _____

Resistor Tolerance _____

Capacitor Tolerance _____

Packaging Available _____

Example: 330 = 33Ω, 101 = 100Ω

Example: 470 = 47pF, 101 = 100pF

M = ±20%

K = ±10%, M = ±20%

Example: 470 = 47pF, 101 = 100pF

Example: 470 = 47pF, 101 = 100pF