TaNCap® QSOP IEEE 1284 Filter Network

QRC1284 Series

- Improves signal quality
- Reduces unwanted RF emissions
- Built-in ESD protection into 17 lines
- Proven TaNSil® Thin Film Technology
- Highly Integrated - replaces up to 27 Discretes

The IRC TaNCap® IEEE1284 parallel printer interface networks are designed for use in printer and other digital digital interface applications. These highly integrated TaNSil™ thin film technology network offer three different functions in a single 24-pin QSOP package. R1 is a pull-up resistor for use with open collector and open drain drivers. R2 is a series termination resistor and C acts as a low pass filter.

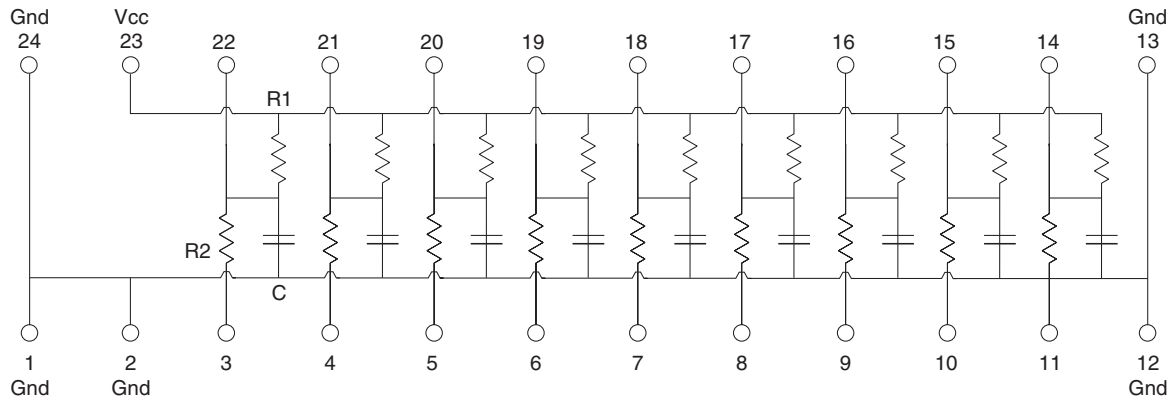
The QSOP package offers a high level of integration in a single surface mount device. Up to 27 discrete passive components are replaced by one IEEE1284 filter network.

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 IEEE1284 filter networks for your most demanding designs.

Electrical Data

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

Schematic



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Resistor-Capacitor Code Table

Code	Range	Tolerance (%)	TCR (ppm/°C)
1	1.0KΩ	10Ω	180pF
2	2.2KΩ	27Ω	220pF
3	4.7KΩ	33Ω	TBA
4	10KΩ	TBA	TBA

Example
332: R1 = 4.7KΩ, R2 = 33Ω, C = 220pF

Ordering Data

Sample Part No. GUS - QRC1284 - 332 - K M

Family

Model
QRC1284 = 24-Pin QSOP
IEEE1284 Filter Schematic

Resistor-Capacitor Code (R1 R2 C)
Ex: 6K8 = 6.8KΩ

Resistor Tolerance
K = ±10%, M = ±20%

Capacitor Tolerance
M = ±20%

Packaging Available
Tubes, Tape & Reel