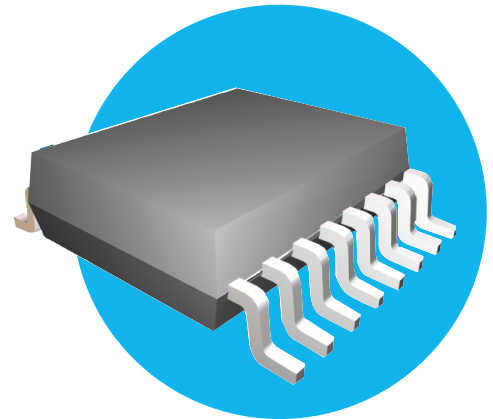



R-2R Ladder Network

R-2R Series

- $\pm 2\%$ Absolute tolerance
- Ladder accuracy ± 1 LSB
- 8 and 10 bit R-2R Schematic
- QSOP Package - Small Footprint
- Standard Sn/Pb and Pb-free terminations available

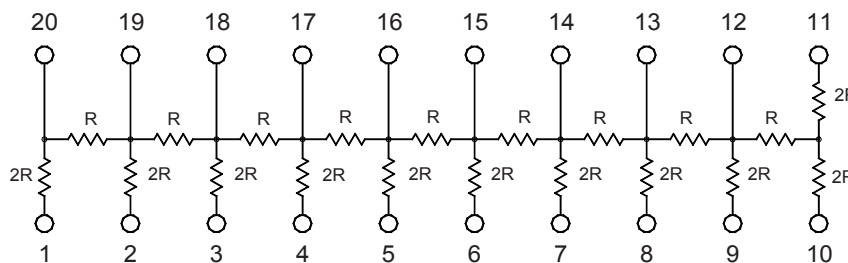


 All Pb-free parts comply with EU Directive 2011/65/EU (RoHS2)

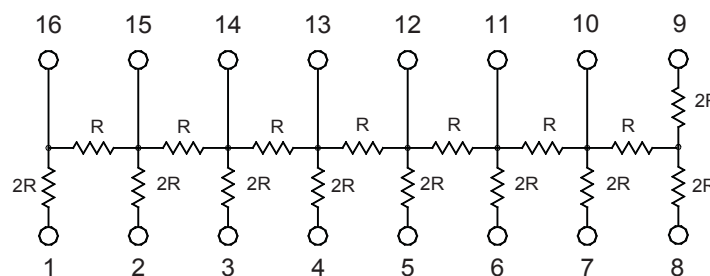
Electrical Data

Resistance Value (ohms)	Absolute Tolerance (%)	Ratio Tolerance	Absolute TCR (ppm/ $^{\circ}$ C)	TCR Tracking (ppm/ $^{\circ}$ C)	Operating Temperature Range ($^{\circ}$ C)
10K/20K and 25K/50K	$\pm 2\%$	± 1 LSB	$\pm 25, \pm 50, \pm 100$	± 5	-55 to +125

Schematic Data



QS009 20-Pin, 10 bit, R-2R Schematic



QS014 16-Pin, 8 bit, R-2R Schematic

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.

R-2R Series

Physical Data

# OF PINS	DIMENSION "D"	ZD REF
16	0.193" ±0.004	0.009"
20	0.341" ±0.004	0.058"

Note: All dimensions exclude mold flash and end flash which shall not exceed 0.006" per side. Drawing proportions not to scale.

Note: Lead Coplanarity 0.004" Max.

Ordering Data

Prefix **GUS** - **QS009** - **01** - **1002** - **G**

Model
 QS009 = 20-Pin, 10 bit, R-2R Ladder Network with Sn/Pb terminations
 QS009LF = 20-Pin, 10 bit, R-2R Ladder Network with 100% matte tin, Pb-free terminations
 QS014 = 16 Pin, 8 bit, R-2R Ladder Network with Sn/Pb terminations
 QS014LF = 16-Pin, 8 bit, R-2R Ladder Network with 100% matte tin, Pb-free terminations

Temperature Coefficient
 01 = ±100ppm/°C; 02 = ±50ppm/°C; 03 = ±25ppm/°C

Absolute Tolerance
 G = ±2%

Resistance
 1002 = 10KΩ/20KΩ
 2502 = 25KΩ/50KΩ

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