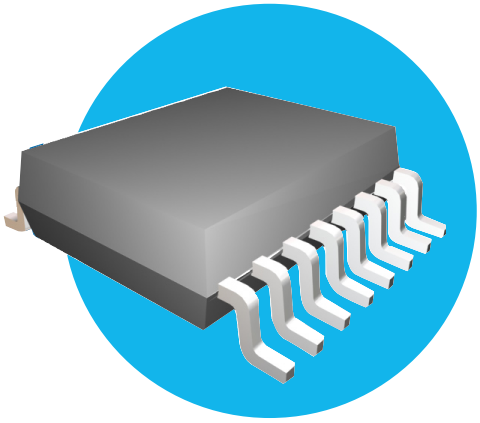
Resistors

R-2R Ladder Network



R-2R Series

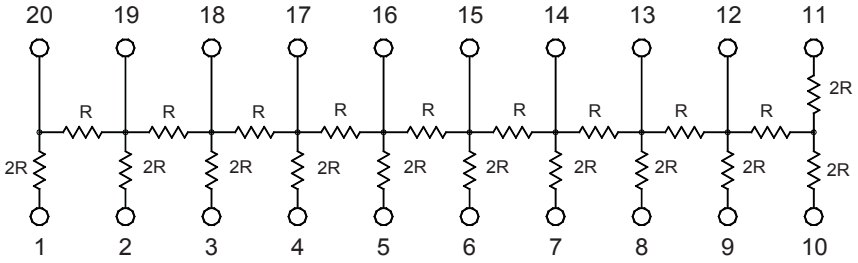
- ±2% Absolute tolerance
- Ladder accuracy +/- 1 LSB
- 8 and 10 bit R-2R Schematic
- QSOP Package - Small Footprint
- Standard Sn/Pb and Pb-free terminations available

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

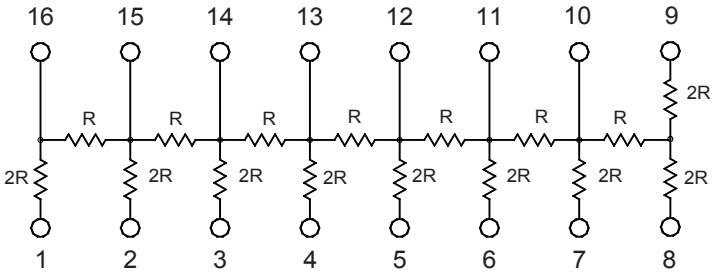
Electrical Data

Resistance Value (ohms)	Absolute Tolerance (%)	Ratio Tolerance	Absolute TCR (ppm/°C)	TCR Tracking (ppm/°C)	Operating Temperature Range (°C)
10K/20K and 25K/50K	±2%	±1 LSB	±25, ±50, ±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

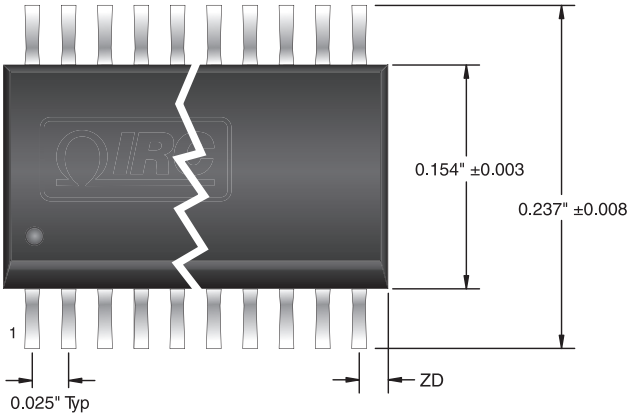
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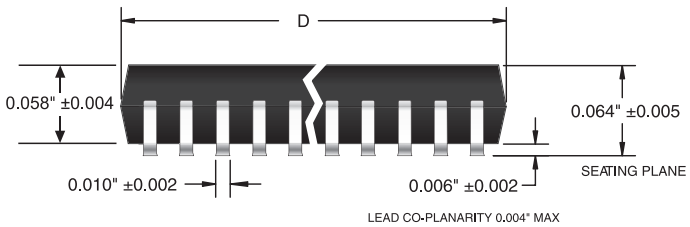
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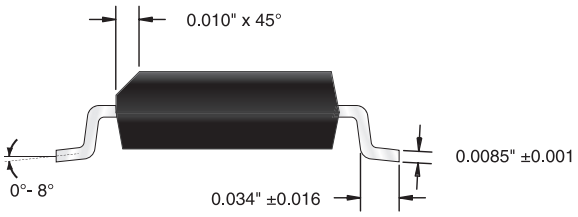
R-2R Series

Physical Data



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





Note: All dimesions 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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