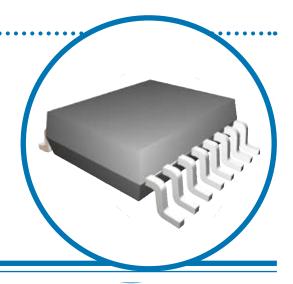
Surface Mount QSOP Resistor Networks



QSOP Series

- Reliable, no internal cavity
- High resistor density .025" lead spacing
- Standard JEDEC 16, 20, and 24 pin packages
- Ultra-stable TaNSil® resistors on silicon substrate
- RoHS compliant and Sn/Pb terminations available



IRC's TaNSil® QSOP resistor networks are the perfect solution for high volume applications that demand a small wiring board footprint. The 0.025" lead spacing provides higher lead density, increased component count, lower resistor cost, and high reliability.

The tantalum nitride film system on silicon provides precision tolerance, exceptional TCR tracking, low cost and miniature package. Excellent performance in harsh, humid environments is a trademark of IRC's self-passivating TaNSil® resistor film.

The QSOP series is ideally suited for the latest surface mount assembly techniques and each lead can be 100% visually inspected. The compliant gull wing leads relieve thermal expansion and contraction stresses created by soldering and temperature excursions.

For applications requiring high performance resistor networks in a low cost, surface mount package, specify IRC QSOP resistor networks.

Electrical Data

Resistance Range	10 to 250KΩ		
Absolute Tolerance	To ±0.1%		
Ratio Tolerance to R1	To ±0.05%		
Absolute TCR	To ±25ppm/°C		
Tracking TCR	To ±5ppm/°C		
Element Power Rating @ 70°C			
Isolated Schematic	100mW		
Bussed Schematic	50mW		
Package Power Rating @ 70°C	16-Pin 20-Pin 24-Pin		
Rated Operating Voltage (not to exceed $\sqrt{P \times R}$)	100 Volts		
Operating Temperature	-55°C to +125°C		
Noise	<-30dB		

Environmental Data

Test Per MIL-PRF-83401	Typical Delta R	Max Delta R	
Thermal Shock	±0.02%	±0.1%	
Power Conditioning	±0.03%	±0.1%	
High Temperature Exposure	±0.03%	±0.05%	
Short-time Overload	±0.02%	±0.05%	
Low Temperature Storage	±0.03%	±0.05%	
Life	±0.05%	±2.0%	





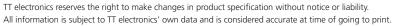




Manufacturing Capability Data

	ISOLATED SCHEMATIC A				BUSSED SCHEMATIC B			
Absolute TCR (ppm/°C)	Ohmic Range (Ω)	Available Tolerances	Available Ratio Tolerances	Best Tracking (±ppm/°C)	Ohmic Range (Ω)	Available Tolerances	Available Ratio Tolerances	Best Tracking (±ppm/°C)
250	10-25	FGJ	FG	100	10-25	FGJ	FG	200
	26-50	DFGJ	CDFG	50	26-50	FGJ	DFG	100
	51-200	CDFGJ	CDFG	10	51-100	DFGJ	CDFG	50
	201-250K	BCDFGJ	ABCDFG	5	101-200	DFGJ	BCDFG	25
					201-500	BCDFGJ	BCDFG	20
					501-100K	BCDFGJ	ABCDFG	5
100	26-50	DFGJ	CDFG	50	26-50	FGJ	DFG	100
	51-200	CDFGJ	CDFG	5	51-100	DFGJ	CDFG	50
	201-250K	BCDFGJ	ABFG	5	101-200	DFGJ	BCDFG	25
					201-500	BCDFGJ	BCDFG	20
					501-100K	BCDFGJ	ABCDFG	5
50	26-50	DFGJ	CDFG	50	51-100	DFGJ	CDFG	50
	51-200	CDFGJ	CDFG	10	101-200	DFGJ	BCDFG	25
	201-250K	BCDFGJ	ABFG	5	201-500	BCDFGJ	BCDFG	20
					501-100K	BCDFGJ	ABCDFG	5
25	51-200	CDFGJ	CDFG	10	201-500	BCDFGJ	BCDFG	20
	201-250K	BCDFGJ	ABFG	5	501-100K	BCDFGJ	ABCDFG	5

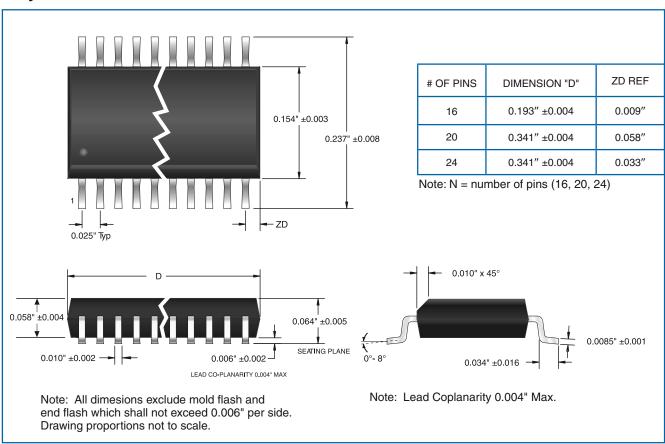
General Note



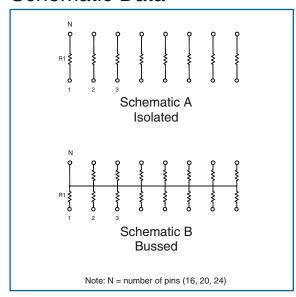




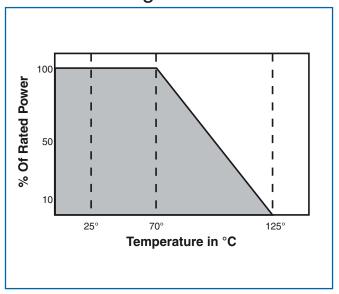
Physical Data



Schematic Data



Power Derating Curve



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.

Surface Mount QSOP Resistor Networks





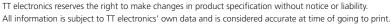
Ordering Data



Packaging

Specify tubes or tape & reel.

For additional information or to discuss your specific requirements, please contact our Applications Team using the contact details below.





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M8340108K3322FCD03 M8340108K4991FGD03 M8340108K6202GGD03 M8340109K2002FCD03 M8340109M4701GCD03 EXB
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