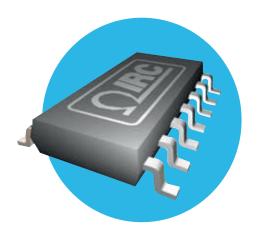
Resistors

Surface Mount SOIC Resistor Networks

SOIC Series

- Tested for COTS applications
- Both narrow and wide body versions available
- Standard JEDEC 8, 14, 16, and 20 pin packages
- Ultra-stable TaNSil® resistors on silicon substrates
- Standard Sn/Pb and Pb-free terminations available





All Pb-free parts comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

IRC's TaNSil® SOIC resistor networks are the perfect solution for high volume applications that demand a small wiring board footprint. The .050" 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 SOIC 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 SOIC resistor networks.

Electrical Data

Resistance Range	10R to 250K		
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 Bussed Schematic	100mW 50mW		
Power Rating @ 70°C SOIC-N Package	14-Pin	400mW 700mW 800mW	
Power Rating @ 70°C SOIC-W Package	16-Pin 20-Pin	1.2W 1.5W	
Rated Operating Voltage (not to exceed √Power X Resistance)	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%	±0.1%

SOIC Series

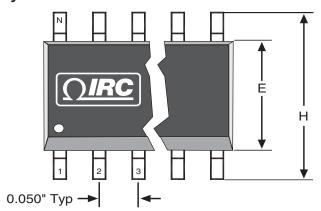


Manufacturing Capability Data

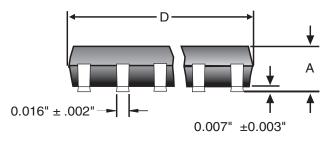
	ISOLATED SCHEMATIC A			BUSSED SCHEMATIC B				
Absolute TCR (ppm/°C)	Ohmic Range (Ω)	Available Tolerances	Available Ratio Tolerances	Best Tracking (±ppm/°C)	Ohmic Range (Ω)	Available Tolerances	Available Ratio Tolerances	Best Tracking (±ppm/°C)
	10-25	FGJ	FG	50	10-25	FGJ	FG	200
	26-50	DFGJ	CDFG	10	26-50	FGJ	DFG	100
	51-200	CDFGJ	CDFG	5	51-100	DFGJ	CDFG	50
250	201-250K	BCDFGJ	ABCDFG	5	101-200	DFGJ	BCDFG	25
				201-500	BCDFGJ	BCDFG	20	
					501-100K	BCDFGJ	ABCDFG	5
	26-50	DFGJ	CDFG	10	26-50	FGJ	DFG	100
100	51-200	CDFGJ	CDFG	5	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
	26-50	DFGJ	CDFG	10	51-100	DFGJ	CDFG	50
50	51-200	CDFGJ	CDFG	5	101-200	DFGJ	BCDFG	25
	201-250K	BCDFGJ	ABCDFG	5	201-500	BCDFGJ	BCDFG	20
				501-100K	BCDFGJ	ABCDFG	5	
0-	51-200	CDFGJ	CDFG	5	201-500	BCDFGJ	BCDFG	20
25	201-250K	BCDFGJ	ABCDFG	5	501-100K	BCDFGJ	ABCDFG	5



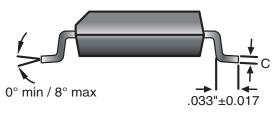
Physical and Schematic Data



	SOIC-N			SOIC-W		
	8-Pin	14-Pin	16-Pin	16-Pin	20-Pin	
D	0.193"±0.004 (4.902 ± 0.102)	0.341"±0.004 (8.661 ± 0.102)	0.390"±0.004 (9.906 ± 0.102)	0.402"±0.004 (10.211 ± 0.102)	0.502"±0.004 (12.751 ± 0.102)	
Н	0.236"±0.008 (5.994 ± 0.203)			0.406"±0.008 (10.312 ± 0.203)		
Е	0.153"±.004 (3.886 ± 0.102)			0.295"±0.004 (7.493 ± 0.102)		
А	0.064"±0.004 (1.626 ± 0.102)			0.100"±0.004 (2.540 ± 0.102)		
С	0.0075" - 0.010" (0.191 ± 0.254)			0.011"±0.002 (0.279 ± 0.051)		



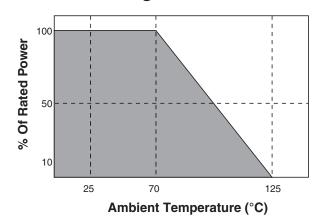
Note: All dimesions exclude mold flash and end flash which shall not exceed 0.006" per side.



Note: Lead Coplanarity 0.004" Max.

Schematic A Isolated Schematic B Bussed

Power Derating Curve



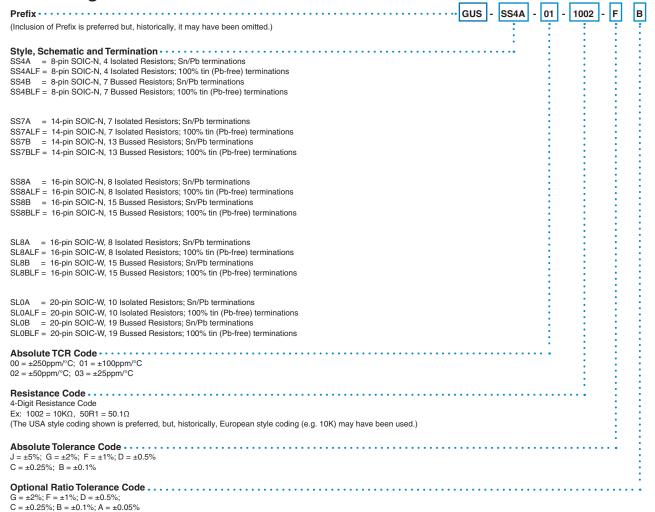
For additional information or to discuss your specific requirements, please contact our Applications Team using the contact details below.

Surface Mount SOIC Resistor Networks





Ordering Data



Packaging

Specify tubes or tape & reel.

Tape and reel packaging is compliant with EIA-481-D: 8 mm through 200 mm Embossed Carrier Taping and 8 mm and 12 mm Punched Carrier Taping of Surface Mount Components for Automatic Handling.

Tube packaging drawing detail available upon request.

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M8340108K6202GGD03 M8340109K2002FCD03 M8340109M4701GCD03 EXB-24N121JX EXB-24N470JX EXB-A10E102J EXB-A10E104J 744C083101JTR MDP1603100KGE04 PRA100I2-1KBWNW GUS-SS4-BLF-01-1002-G ACAS06S0830339P100

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