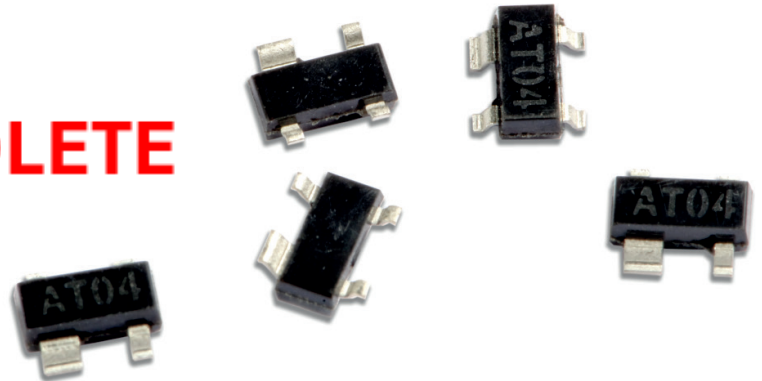


SOT143 Surface Mount Resistor Networks

SOT143 Series

- Ratio tolerances to $\pm 0.05\%$
- Standard and custom circuits available
- Extremely small industry standard package

OBSOLETE



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

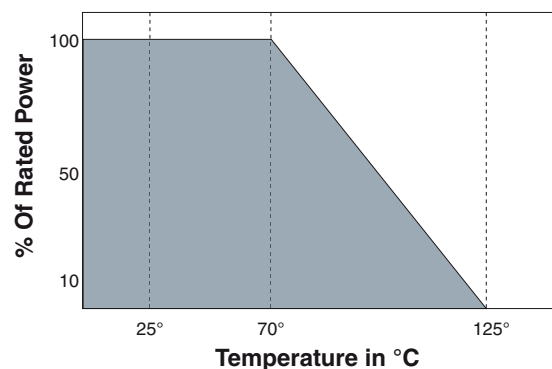
Electrical Data

Characteristic	Value
Absolute Tolerance	To $\pm 0.1\%$
Ratio Tolerance	To $\pm 0.05\%$
Absolute TCR	To $\pm 25\text{ppm}/^\circ\text{C}$
Tracking TCR	To $\pm 2\text{ppm}/^\circ\text{C}$
Package Power Rating (70°C)	250mW
Element Power Rating (70°C)	100mW
Rated Operating Voltage (not to exceed $\sqrt{\text{Power} \times \text{Resistance}}$)	100V
Operating Temperature Range	-55°C to $+125^\circ\text{C}$
Noise	$< -30\text{dB}$
Substrate Material	Silicon

Environmental Data

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

Power Derating Curve



General Note

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Schematic / Circuit Detail

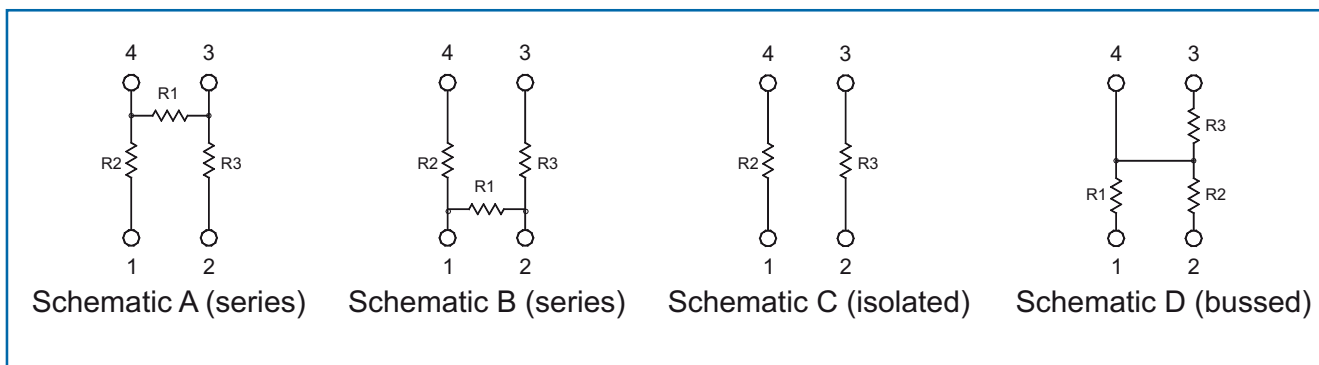
Schematic/ Circuit Code	R1 (Ω)	R2 (Ω)	R3 (Ω)	Available Absolute Tolerances	Available Ratio Tolerance	Available Absolute TCRs
A001	500.0	50.0K	50.0K	J, G, F	G, F, D, B	$\pm 100, \pm 50, \pm 25$
A002	10.0K	10.0K	10.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
A003	900.0	100.0	9.0K	J, G, F, B	G, F, D, B	$\pm 100, \pm 50, \pm 25$
A004	500.0	48.0K	48.0K	J, G, F, B	G, F, D, B	$\pm 100, \pm 50, \pm 25$
A005	200.0	40.0K	40.0K	J, G, F	G, F, D, B	$\pm 100, \pm 50, \pm 25$
A006	2.5K	2.5K	2.5K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
A007	200.0	900.0	900.0	J, G, F	G, F, D, B	$\pm 100, \pm 50, \pm 25$
A008	1.0K	500.0	500.0	J, G, F	G, F, D, B	$\pm 100, \pm 50, \pm 25$
A009	500.0	30.0K	30.0K	J, G, F	G, F, D, B	$\pm 100, \pm 50, \pm 25$
A010	400.0	25.0K	25.0K	J, G, F	G, F, D, B	$\pm 100, \pm 50, \pm 25$
A011	2.0K	125.0K	125.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
A012	2.0K	125.0K	125.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
A013	300.0	40.0K	40.0K	J, G, F, B	G, F, D, B,	$\pm 100, \pm 50, \pm 25$
A014	500.0	40.0K	40.0K	J, G, F, B	G, F, D, B,	$\pm 100, \pm 50, \pm 25$
B001	10.0K	10.0K	10.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
B002	900.0	100.0	9.0K	J, G, F	G, F, D, B	$\pm 100, \pm 50, \pm 25$
B003	1.0K	10.0K	10.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
C001	N/A	10.0K	10.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
C002	N/A	1.0K	1.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
C003	N/A	9.0K	1.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
C004	N/A	750.0	750.0	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
C005	N/A	100K	100K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
C006	N/A	33.0K	330.0	J, G, F	G, F, D, B	$\pm 100, \pm 50, \pm 25$
C007	N/A	2.0K	2.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
C008	N/A	10.0K	2.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
C009	N/A	10.0K	200.0	J, G, F	G, F, D, B	$\pm 100, \pm 50, \pm 25$
C010	N/A	2.1K	10.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
C011	N/A	2.15K	10.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
C012	N/A	10.0K	100.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
C013	N/A	7.5K	7.5K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
C014	N/A	500.0	500.0	J, G, F	G, F, D, B	$\pm 100, \pm 50, \pm 25$
C015	N/A	49.9K	49.9K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
C016	N/A	15.0K	15.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
C017	N/A	30.0K	30.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
C018	N/A	40.0K	40.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
C019	N/A	50.0K	50.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
C020	N/A	60.0K	60.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
C021	N/A	3.9K	4.992K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
D001	121.0	1.33K	1.0K	J, G, F	G, F, D, B	$\pm 100, \pm 50, \pm 25$
D002	2.0K	1.0K	2.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
D003	50.0K	5.0K	5.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
D004	5.4K	5.4K	27.5K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
D005	40.0K	40.0K	40.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
D006	10.0K	10.0K	20.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$
D007	20.0K	20.0K	20.0K	J, G, F, B	G, F, D, B, A	$\pm 100, \pm 50, \pm 25$

General Note

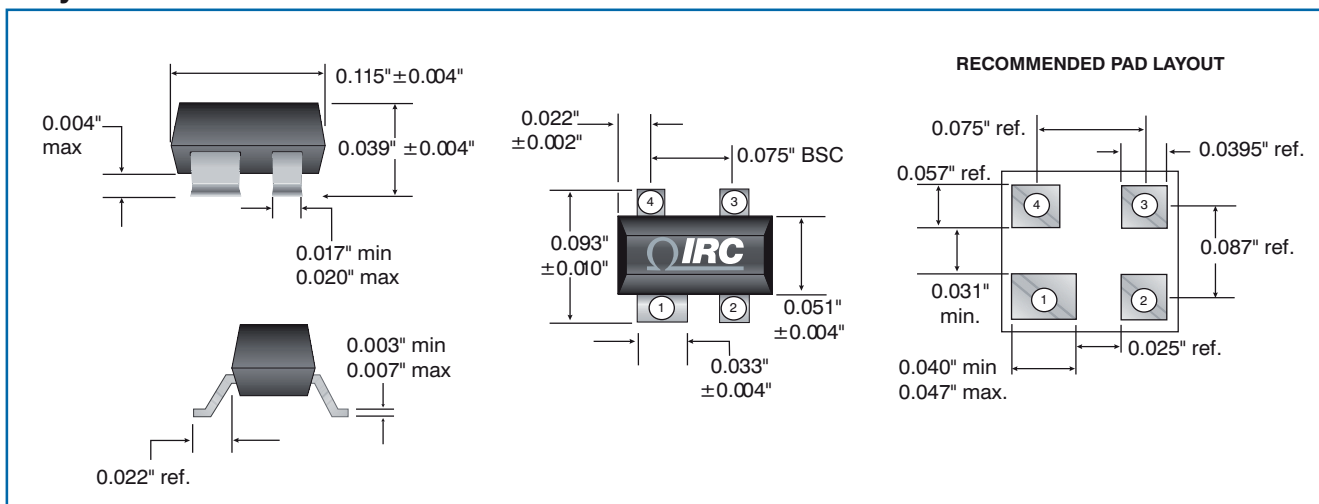
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Schematic Data



Physical Data



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SOT143 Series

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Ordering Procedure

This product has two valid part numbers:

European (Welwyn) Part Number: SOT143-A002-FB (25ppm/°C, schematic A, circuit code 001, absolute tolerance ±1%, ratio tolerance ±0.1%, Pb-free)

S	O	T	1	4	3				-	A	0	0	2	-	F	B
1					2			3					4		5	

1 Type	2 Absolute TCR	3 Schematic & Circuit Code	4 Absolute Tolerance	5 Ratio Tolerance	Termination & Packing
SOT143	Omit for ±25ppm/°C	See Table	B = ±0.1%	A = ±0.05%	Pb-free, 1000/reel
	-02 = ±50ppm/°C		F = ±1%	B = ±0.1%	
	-01 = ±100ppm/°C		G = ±2%	D = ±0.5%	
			J = ±5%	F = ±1%	
				G = ±2%	

USA (IRC) Part Number: SOT-SOT143LF-03-A002-FB (25ppm/°C, schematic A, circuit code 001, absolute tolerance ±1%, ratio tolerance ±0.1%, Pb-free)

S	O	T	-	S	O	T	1	4	3	L	F	-	0	3	-	A	0	0	2	-	F	B
1				2						3		4		5					6		7	

1	2	3	4	5	6	7	
Family	Model	Termination	Absolute TCR	Schematic & Circuit Code	Absolute Tolerance	Ratio Tolerance	Packing
SOT	SOT143	LF = Pb-free (100%Sn)	03 = ±25ppm/°C	See Table	B = ±0.1%	A = ±0.05%	1000/reel
			02 = ±50ppm/°C		F = ±1%	B = ±0.1%	
			01 = ±100ppm/°C		G = ±2%	D = ±0.5%	
					J = ±5%	F = ±1%	
					G = ±2%		

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