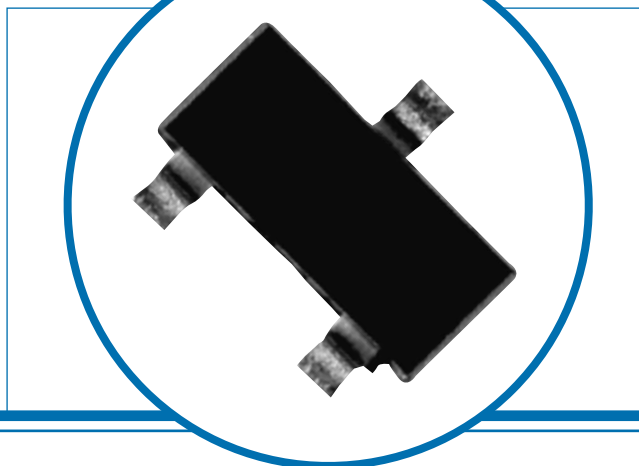


Surface Mount Divider Network

SOT Series

- Ultra-stable TaNSil® resistors on silicon
- Reliable, no internal cavity
- Low cost, highly reliable, wire bonded package
- Small footprint, less than 0.025 square inches



Electrical Data

Resistance Range	ohms	10R to 100K per resistor
Absolute Tolerance		to $\pm 0.1\%$
Ratio Tolerance		to $\pm 0.05\%$
Absolute TCR	ppm/ $^{\circ}$ C	to ± 25
Tracking TCR	ppm/ $^{\circ}$ C	to ± 5
Operating Temperature Range	$^{\circ}$ C	-55 to +125
Maximum Operating Voltage	$^{\circ}$ C	100V or \approx PxR
Noise		<-25dB
Substrate		Silicon
Package Power Rating	watts	0.25

Performance Data

Test	Environmental Performance to MIL-PRF-83401		
	Characteristic H Δ Limit	Max Δ R	Typical Δ R
Thermal Shock	0.5	0.1	0.02
Power Conditioning	0.5	0.1	0.03
Low Temperature Operation	0.1	0.1	0.03
Short Time Overload	0.1	0.1	0.02
Terminal Strength	0.25	0.1	0.02
Resistance to Solder Heat	0.1	0.1	0.02
Moisture Resistance	0.4	0.1	0.03
Shock	0.25	0.1	0.02
Vibration	0.25	0.1	0.02
Life	0.5	0.1	0.05
High Temperature Exposure	0.2	0.1	0.05
Low Temperature Storage	0.1	0.05	0.03
25% Double Load	0.5	0.1	0.05

General Note

Welwyn Components reserves the right to make changes in product specification without notice or liability. All information is subject to Welwyn's own data and is considered accurate at time of going to print.

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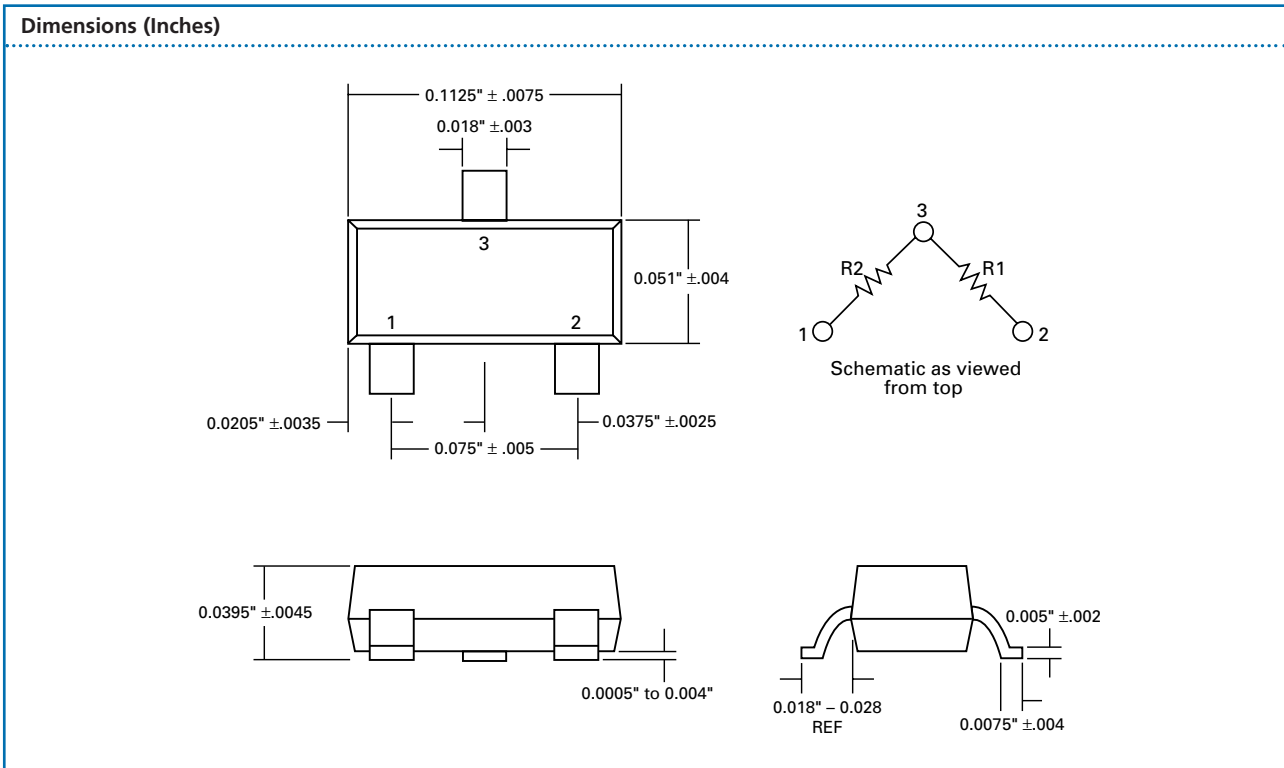
Surface Mount Divider Network

SOT Series

TaNsil® SOT resistor networks are ideally suited for low cost divider applications that demand precision performance in a small printed wiring board footprint. Available in a SOT23 package, it is fully compatible with the latest surface mount assembly techniques. Compliant gull wing leads relieve thermal expansion and contraction stresses created by soldering and temperature excursions.

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

For applications requiring high performance resistor dividers in a surface mount package, specify SOT series resistors



Packaging

Resistor networks are supplied taped and reeled.