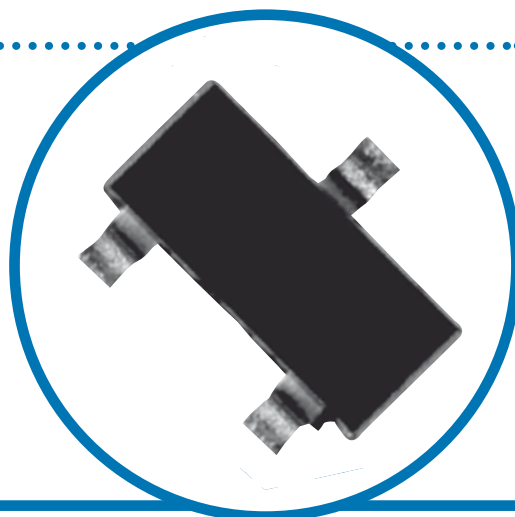


Surface Mount Divider Network

SOT23 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 200K per resistor
Absolute Tolerance		to $\pm 0.1\%$
Ratio Tolerance		to $\pm 0.05\%$
Absolute TCR	ppm/°C	to ± 25
Tracking TCR	ppm/°C	to ± 5
Operating Temperature Range	°C	-55 to +125
Maximum Operating Voltage	°C	100V or $\sqrt{P \times R}$
Noise		<-25dB
Substrate		Silicon
Package Power Rating	watts	0.25

Performance Data

Test	Environmental Performance to MIL-PRF-83401		
	Characteristic H Δ Limit	Max ΔR	Typical ΔR
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

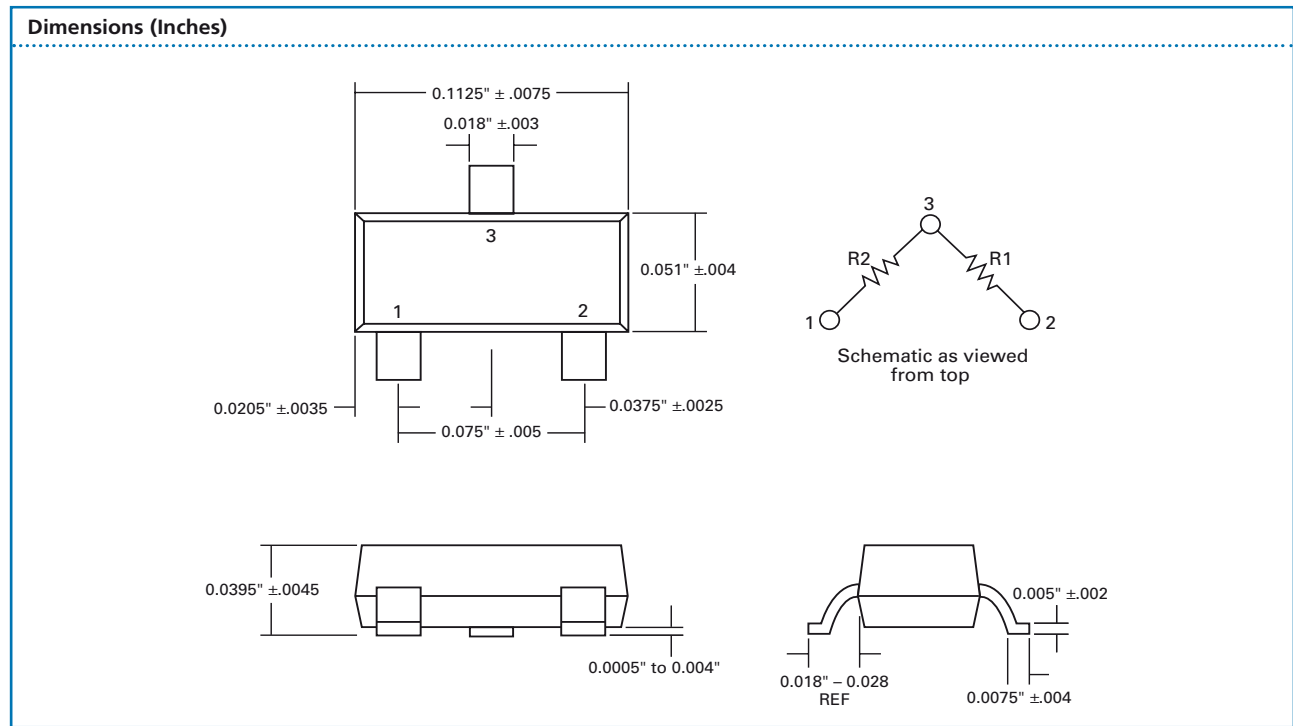
General Note

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.

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 is 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



Ordering Procedure

Example: SOT23 with an absolute TCR of 25ppm/°C, an R1 value of 1 kilohm, an R2 value of 9 kilohms, 1% absolute tolerance and 0.1% ratio tolerance tape packed on a reel of 1000 pieces -

SOT23 - 1K0 - 9K0FB

Type _____

Absolute TCR _____

00	250 ppm/°C	02	50 ppm/°C
01	100 ppm/°C		25 ppm/°C

R1 Value (use IEC62 code) _____

R2 Value (use IEC62 code) _____

Absolute Tolerance (use IEC62 code) _____

B	0.1%	G	2%
C	0.25%	J	5%
D	0.5%	K	10
F	1%		

Ratio Tolerance (use IEC62 code) _____

W	0.05%	D	0.5%
B	0.1%	F	1%
C	0.25%	G	2%

Packing

I	Tape	1000 pcs/reel	Standard
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