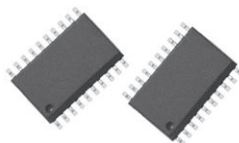


## Molded, 50 mil Pitch, Dual In-Line Thin Film Resistor, Surface Mount Network



Actual Size

### FEATURES

- Rugged, molded case construction
- Reduces total assembly costs
- Saves board space
- Compatible with surface mounting equipment
- Uniform performance characteristics
- Compliant to RoHS Directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition



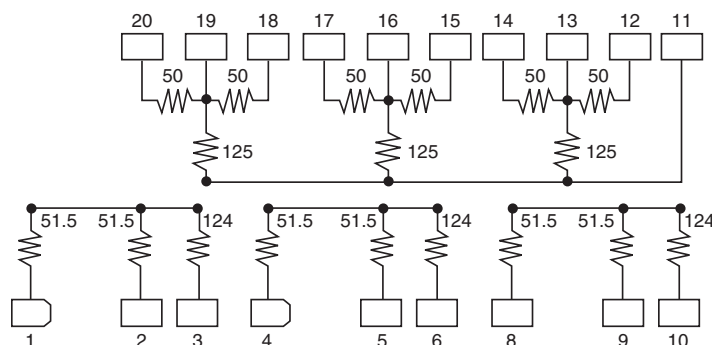
**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**

### TYPICAL PERFORMANCE

	ABSOLUTE	TRACKING
TCR	100	10
	ABSOLUTE	RATIO
TOL.	1, 2	0.5

V.35 termination network used to insure signal integrity between transmitter and receiver sections of V.35 protocol.

### SCHEMATIC



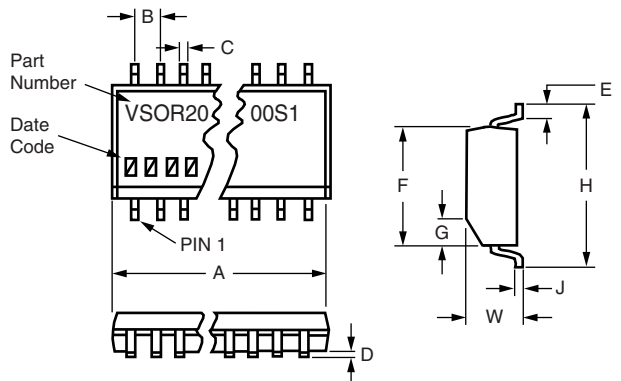
#### Notes

- Pad 7 does not exist
- PIN 7 is an open circuit

### STANDARD ELECTRICAL SPECIFICATIONS

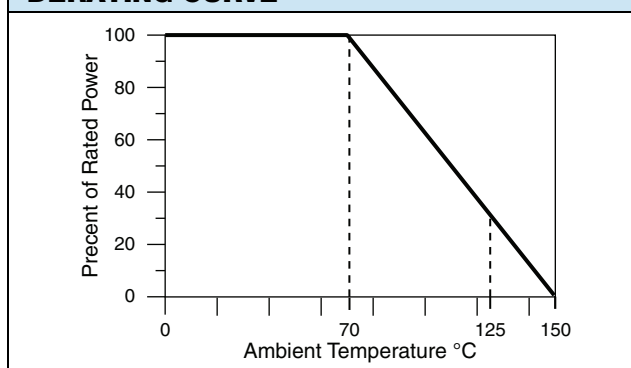
TEST	SPECIFICATIONS	CONDITIONS
Material	Tantalum nitride	-
Pin/Lead Number	20	-
Resistance Range	50 $\Omega$ to 125 $\Omega$	-
TCR: Absolute	$\pm 100$ ppm/ $^{\circ}$ C	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C
TCR: Tracking	$\pm 10$ ppm/ $^{\circ}$ C	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C
Tolerance: Absolute	$\pm 1$ %, $\pm 2$ %	$\pm 1$ %: 51.5 $\Omega$ and 124 $\Omega$ $\pm 2$ %: 50.0 $\Omega$ and 125 $\Omega$
Tolerance: Ratio	0.5 %	-
Power Rating: Resistor	-	-
Power Rating: Package	1.6 W	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C
Stability: Absolute	-	-
Stability: Ratio	-	-
Voltage Coefficient	-	-
Working Voltage	-	-
Operating Temperature Range	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C	-
Storage Temperature Range	- 55 $^{\circ}$ C to + 150 $^{\circ}$ C	-
Noise	-	-
Thermal EMF	-	-
Shelf Life Stability: Absolute	-	-
Shelf Life Stability: Ratio	-	-

**DIMENSIONS AND IMPRINTING** in inches and millimeters

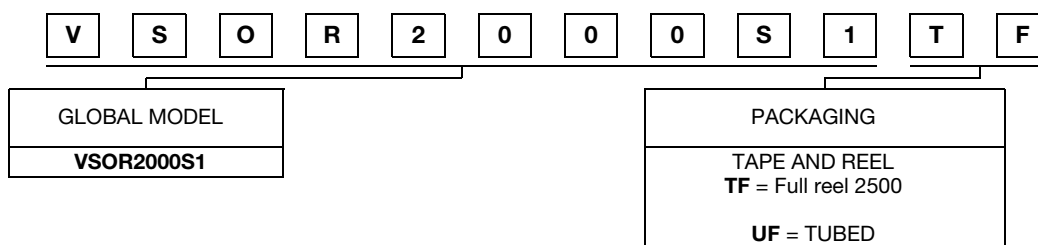
	DIMENSION	INCHES	MILLIMETERS
	A	0.500 ± 0.010	12.7 ± 0.25
	B (Ref.)	0.050	1.27
	C (Ref.)	0.016	0.41
	D	0.008	0.20
	E (Typ.)	0.030	0.75
	F	0.293 ± 0.003	7.44 ± 0.08
	G	0.025 x 45°	0.64 x 45°
	H	0.406 ± 0.005	10.31 ± 0.13
	J (Ref.)	0.010	0.25
	W	0.100 ± 0.005	1.54 ± 0.13

**MECHANICAL SPECIFICATIONS**

Resistive Material	Tantalum nitride
Substrate Material	Silicon
Body	Molded epoxy
Terminals	Copper alloy
Plating	Tin lead solder
Lead coplanarity	0.0005"
Marking Resistance to Solvents	Permanency testing per MIL-STD-202, method 215
Lead (Pb)-free	100 % matte tin Plated

**DERATING CURVE**

**GLOBAL PART NUMBER INFORMATION**

New Global Part Numbering: VSOR2000S1T1



Historical Part Number example: VSOR2000S1T/R (for reference purposes only)





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