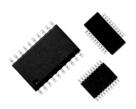
VISHAY.

25 or 50 Mil Pitch, Termination Resistor/Capacitor Networks

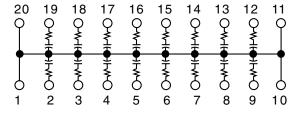




Small Outline, Surface Mount, EMI/RFI Reduction

If your design calls for the elimination of transmission line effects on high speed data lines Vishay Thin Film's integrated RC network, schematic AB is the answer. The planar design of our single die thin film networks offer low noise and predictable component behavior over a wide frequency range. Care must be taken when choosing matching networks that their frequency response matches that of the transmission line. Our product will reduce total assembly costs through surface mount technology, reduced component count and improved performance characteristics. Available packages SOIC, SSOP and TSSOP.

SCHEMATIC AB



FEATURES

- Lead (Pb)-free standard
- · Resistors and capacitors on a single chip
- · Saves board space
- · Reduces total assembly costs
- Uniform performance characteristics
- Compatible with automatic surface mounting equipment
- UL 94V-0 flame resistant
- Rugged, molded case construction

TYPICAL PERFORMANCE

	TCR	TOLERANCE
RESISTOR	200	10 %
	тсс	TOLERANCE
CAPACITOR	200	20 %

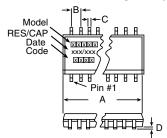
MODELS			STANDAR	D VALUES
VSORC	C VSSRC VTSRC		R (Ω)	C (pF)
	Х		47	33

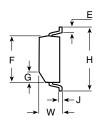
STANDARD ELECTRICAL SPECIFICATIONS					
TEST		SPECIFICATIONS	CONDITIONS		
Material		Tantalum Nitride on Silicon			
Resistance Range	е	10 Ω to 750 Ω			
TCR:		± 10 ppm/°C			
ich.	Absolute	± 200 ppm/°C	0 °C to + 70 °C		
	Absolute	± 10 % Standard (R)			
Tolerance:	Absolute	± 20 % Standard (C)	at 1 MHz and V _{RMS} over + 10 °C to + 70 °C		
Power Rating: Package		1 W - (T)SSOP. 1.2 W - SOIC	See Derating Curve		
Capacitance Range		10 pF to 150 pF - TSSOP/10 pF to 250 pF - SOIC and SSOP			
Stability: $\triangle R$ Ratio		± 2 %	1000 h at + 70 °C		
ESD Protection		> 2 kV	MIL-STD-883, Method 3015		
Breakdown Voltage		35 - 50 V			
Operating Temperature Range		0 °C to + 70 °C			
Storage Temperat	ture Range	- 55 °C to + 125 °C			
Power Rating/Res	sistor	100 mW			



25 or 50 Mil Pitch, Termination Resistor/Capacitor Networks Vishay Thin Film

DIMENSIONS AND IMPRINTING in inches and millimeters



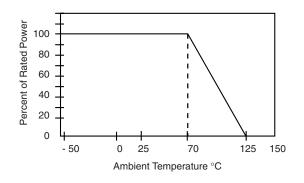


MODEL	VTSRC20-AB		VSSRC20-AB		VSORC20-AB	
MODEL	INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Α	0.256 ± 0.003	6.5 ± 0.08	0.344 Max.	8.74 Max.	0.500 ± 0.010	12.7 ± 0.25
B (Ref.)	0.025	0.65	0.025	0.64	0.050	1.27
C (Ref.)	0.0087	0.22	0.010	0.25	0.016	0.41
D	0.004	0.10	0.006	0.15	0.008	0.20
E (Typ.)	0.024	0.61	0.025	0.64	0.030	0.76
F	0.173 ± 0.003	4.39 ± 0.08	0.154 ± 0.003	3.9	0.293 ± 0.003	7.44
G	0.015 × 45°	0.38	0.015 × 45°	0.38	0.025 × 45°	0.64
Н	0.252 ± 0.005	6.4 ± 0.13	0.236 ± 0.008	6.0 ± 0.20	0.406 ± 0.005	10.31
J (Ref.)	0.005	0.13	0.010	0.25	0.010	0.25
W	0.043 ± 0.005	1.09 ± 0.13	0.064 ± 0.005	1.6	0.100 ± 0.005	2.59

IMPRINTING					
VSORC, VSSRC, VTSRC 20 AB XXX / XX					xx
MODEL	PIN COUNT	SCHEMATIC	RESISTANCE Code: e.g. $100 = 10 \Omega$	/	CAPACITANCE Code: e.g. 101 = 100 pF
		XXXX	* Optional marking		
		Date Code			

MECHANICAL SPECIFICATIONS				
Resistive Element	Tantalum Nitride			
Substrate Material	Silicon			
Body	Molded Epoxy			
Terminals	Copper Alloy			
Plating	100 % Sn Matte			
Lead Coplanarity	0.0005 Inches			
Marking Resistance to Solvents	Permanency testing per MIL-STD-202, Method 215			

DERATING CURVE



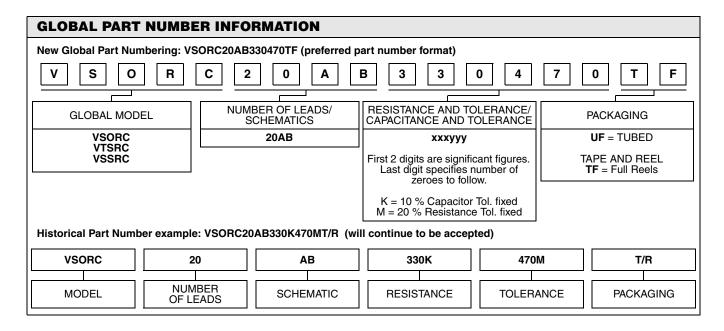
PACKING INFORMATION					
MODEL	LEADS	TAPE AND REEL	TUBES		
VTSRC (TSSOP)	20	2500	74		
VSSRC (SSOP)	20	2500	55		
VSORC (SOIC)	20	1000	38		

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VTSRC, VSSRC, VSORC-AB

Vishay Thin Film 25 or 50 Mil Pitch, Termination Resistor/Capacitor Networks





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Vishay

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