

# Vishay Thin Film

# Molded, 50 Mil Pitch, Dual In-Line **Resistor Networks, Wide Body**



**Actual Size** 

The WOMC series features a standard 16 and 20 pin wide body (0.30") small outline surface mount style that can accommodate resistor networks to your particular application requirements. The networks can be constructed with Passivated Nichrome, or Tantalum Nitride resistor films to optimize performance.

#### **FEATURES**

- Lead (Pb)-free available
- Standard 16 and 20 Pin Counts (0.300" Wide Body) JEDEC MS-013
- Rugged, molded case construction
- High stable thin film element (500 ppm at + 70 °C, 10 000 hours)
- Leads copper alloy, solderable

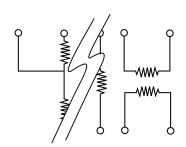




#### **TYPICAL PERFORMANCE**

	ABS	TRACKING
TCR	25	5
	ABS	RATIO
TOL	0.1	0.05

## **SCHEMATIC**



Custom schematics available Please consult factory

STANDARD ELECTRICAL SPECIFICATIONS				
TEST		SPECIFICATIONS	CONDITIONS	
Pin Number		16, 20		
Resistance Range	е	100 Ω to 500 kΩ total		
TCR:	Tracking	± 5 ppm/°C typical	- 55 °C to + 125 °C	
	Absolute	± 50 ppm/°C to 25 ppm/°C	- 55 °C to + 125 °C	
Tolerance:	Ratio	± 0.1 % to ± 0.05 %	+ 25 °C	
	Absolute	± 1.0 % to ± 0.1 %	+ 25 °C	
Power Rating:	Resistor	50 mW per element	Max. at + 70 °C	
	Package	500 mW; 1.0 W	Max. at + 70 °C	
Stability:	∆R Absolute	500 ppm	2000 h at + 70 °C	
	∆ <i>R</i> Ratio	150 ppm	2000 h at + 70 °C	
Voltage Coefficier	nt	0.1 ppm/V		
Working Voltage		50 V		
Operating Tempe	rature Range	- 55 °C to + 125 °C		
Storage Tempera	ture Range	- 55 °C to + 150 °C		
Noise		< - 30 dB		
Thermal EMF		0.08 μV/°C		
Absolute		100 ppm	1 year ratio at + 25 °C	
Shelf Life Stability	y: Ratio	< 20 ppm	1 year ratio at + 25 °C	

<sup>\*</sup> Pb containing terminations are not RoHS compliant, exemptions may apply

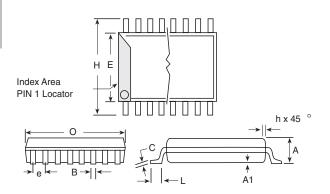
# **WOMC**

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#### **DIMENSIONS AND IMPRINTING** in inches and millimeters



DIMENSION	16		20	
	INCHES	ММ	INCHES	ММ
Н	0.408	10.36	0.408	10.36
Е	0.298	7.57	0.298	7.57
0	0.410	10.41	0.500	12.7
Α	0.097	2.46	0.097	2.46
е	0.050	1.27	0.050	1.27
В	0.016	0.406	0.016	0.406
С	0.009	0.228	0.009	0.228
L	0.026	0.66	0.026	0.66
A <sub>1</sub>	0.007	0.177	0.007	0.177
h	0.015	0.381	0.015	0.381

MECHANICAL SPECIFICATIONS		
Resistive Material	Passivated Nichrome or Tantalum Nitride	
Body	Molded Epoxy	
Plating	Solder	
Marking Resistance to Solvents	Per MIL-PRF-83401	
Substrate Material	Silicon	
Terminals	Copper	
Lead Coplanarity	± 0.004	
Lead (Pb)-free Option	100 % Sn Matte	
Lead (Pb)-free Finish	Plated	

ORDERING INFORMATION CHECK LIST (CUSTOMS)			
Special requirements should be identified in advance, but as a minimum, you should have the following information ready.			
ELECTRICAL	MECHANICAL		
<ol> <li>Resistors, by value and tolerance</li> <li>Reference resistor(s) and matching of which resistors to which reference resistors</li> <li>Reference by ratio</li> <li>Absolute temperature coefficient of resistivity</li> <li>Temperature tracking of subordinate resistors to reference resistor(s)</li> <li>Maximum operating voltage</li> <li>Resistor power ratings</li> <li>Operating temperature range</li> </ol>	Maximum allowable seated height (from PC board to top of network)     Special marking concerns     Schematic pin out of package     Specify if lead (Pb)-free		

Lead (Pb)-free example: WOMCTXXXXA





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GLOBAL PART NUMBER INFORMATION					
New Global Part Numbering: WOMC1xx-xxxT1 (preferred part number format)					
W O M C	1 x x - x	x x T 1			
W O M C T	1 x x - x x	x - x T 1			
<u> </u>					
GLOBAL MODEL (4 or 5 digits)	CUSTOM PART NUMBER (7 or 9 digits)	PACKAGING			
WOMC (Tin Lead)	1xx-xxx or 1xx-xxx-x	TAPE AND REEL <b>T0</b> = 100 Min 100 Mult <b>T1</b> = 1000 Min 1000 Mult			
WOMCT	, , , , , , , , , , , , , , , , , , ,	<b>T3</b> = 300 Min 300 Mult			
(Lead (Pb)-free) (e3)		<b>T5</b> = 500 Min 500 Mult <b>TF</b> = Full Reel 1000			
		<b>TS</b> = 100 Min 1 Mult			
		<b>UF</b> = TUBED			
Historical Part Number example: WOM	C1xx-xxxA (will continue to be accepted)				
WOMC	1xx-xxx	A			
SERIES	CUSTOM PART NUMBER	TOLERANCE			



Vishay

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Revision: 18-Jul-08

Document Number: 91000 www.vishay.com