

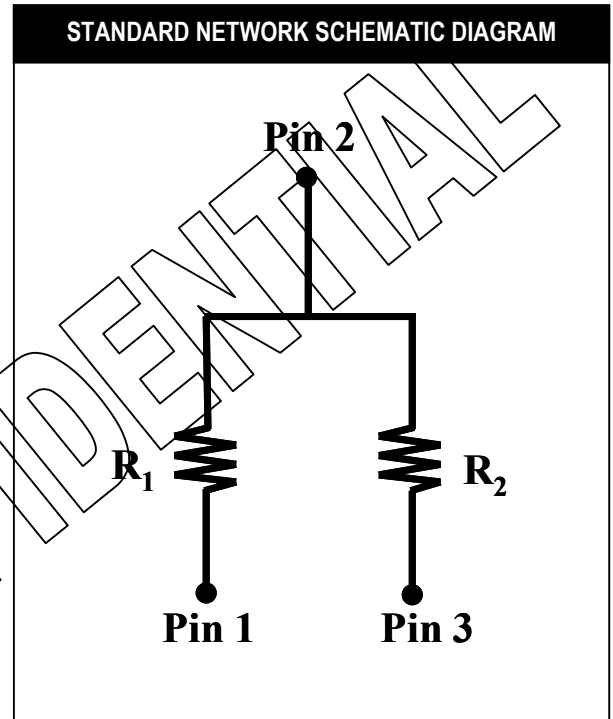
SOT-23 THIN FILM VOLTAGE DIVIDER NETWORK

OnChip's OCRN102 voltage divider resistor array offers a high degree of stability, low noise and the proven reliability characteristics of Tantalum Nitride. These devices are manufactured using advanced Thin Film Technology. Products are RoHS compliant.

The resistance range (per resistor) is 50Ω to 50KΩ.

Operating Temperature Range	-55°C to 150°C
Maximum Power Rating for each Resistor	200mW
Voltage	100V
Noise, Maximum (MIL-STD-202, Method 308)	-25dB
Absolute Resistance Tolerance at 25°C (%)	± 0.1%
Ratio	± 0.1%
Temperature Coefficient of Resistance, ppm/°C	± 150
Typical Tracking TCR, ppm/°C	± 5

MECHANICAL	
Package Type	3-pin SOT-23
Lead Plating	Tin-Lead
Lead Material	Copper Alloy
Lead Co-planarity	0.004" (0.102mm)
Substrate Material	Tantalum Nitride
Resistor Material	Tantalum Nitride
Body Material	Gold
Flammability	UL 94V-0



POWER (WATTS) DISSIPATION @ 25°C
0.25W

ENVIRONMENTAL PERFORMANCE TO MIL-PRF-83401			
TEST	CHAR "H" DELTA LIMIT	MAX.	TYPICAL
Thermal Shock	0.5	0.1	0.02
Power Conditioning	0.5	0.1	0.03
Low Temp. Operation	0.1	0.1	0.02
Short Time Overload	0.1	0.1	0.02
Terminal Strength	0.25	0.1	0.02
Resistance to Solder Heat	0.2	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 Temp. Exposure	0.2	0.1	0.05
Low Temp. Exposure	0.2	0.05	0.03
25% Double Load	0.5	0.1	0.05

OBJECTIVE DATA SHEET

OnChip

OCRN102

Part Number Designation							
OCRN102	-	1001	/	1001	F	A	P
Series		R1 Res Value		R2 Res Value	Abs. Tolerance	TCR	Ratio Match
		First 3 digits are significant value. Last digit represents number of zeros (Ex: 1001 = 1k-ohms). R indicates decimal point.		First 3 digits are significant value. Last digit represents number of zeros (Ex: 1001 = 1k-ohms). R indicates decimal point.	C = ±0.1%	No letter = ±150ppm/°C A = ±50ppm/°C B = ±25ppm/°C	No Letter = ±1%
			D = ±0.5%		P = ±0.5%		
			F = ±1%		Q = ±0.1%		
			G = ±2%		R = ±0.1%		
			J = ±5%				
			K = ±10%				
					M = ±20%		

Packaging:

For the 3-pin SOT-23 package dimensions please check our website at www.onchip.com
Parts will be shipped in tape&reel at 3,000/reel.

This document supercedes all previous specifications.

Please contact the factory for further details on this product.