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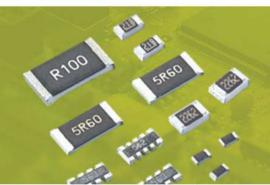






華新科技股份有限公司

Walsin Technology Corporation



Chip Resistors

2012















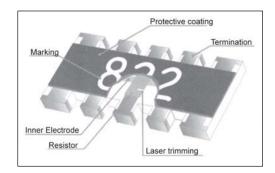
www.passivecomponent.com Chip Resistors

■ WT04X Chip Resistor Network 10P8R

Description

The resistor array is constructed in a high grade ceramic body (aluminum oxide). Internal metal electrodes are added at each end and connected by a resistive paste that is applied to the top surface of the substrate. The composition of the paste is adjusted to give the approximate resistance required and the value is trimmed to within tolerance by laser cutting of this resistive layer.

The resistive layer is covered with a protective coat. Finally, the two external end terminations are added. For ease of soldering the outer layer of these end termination is Tin (Pb free) solder alloy.



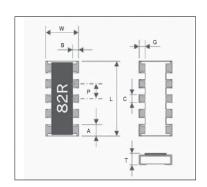
Quick Reference Data

Item	General Specification
Series No.	WT04X
Size	0402x8 (1005x8)
Termination construction	Convex type
Resistance Tolerance	±5% (E24 series)
Resistance Range	10Ω ~ 100ΚΩ
TCR (ppm/°C)	± 200 ppm/°C
Max. dissipation @ Tamb=70°C	1/16 W
Max. Operation Voltage (DC or RMS)	25V
Max. Overload Voltage (DC or RMS)	50V
Climatic category (IEC 60068)	55/155/56
Circuit Mode: Resistor elements on pin1 ~ pin4, pin6 ~ pin9; R1=R2=R3=R4=R6=R7=R8=R9	10 9 8 7 6

Unit: mm

Physical Dimensions:

Symbol	
L	3.30±0.20
W	1.60±0.15
Т	0.55±0.10
Р	0.64±0.05
A	0.50±0.05
В	0.40±0.15
С	0.40±0.15
G	0.40±0.15



^{1.} Power derating curve and detail specification please refer to specific data sheets.



■ WA04P Chip Attenuator

■ Typical Application of Chip Attenuator

WA04	Р	001	X	В	Т	L
Size code	Type code	Attenuation Range	Characteristic Impedance	Attenuation Tolerance	<u>Termination</u>	Packaging
		000 = 0dB				
WA04: 0402	P: convex, π type	R05 = 0.5dB	X:50Ω	A: ± 0.1dB	T=7" reel taped	L=Sn base
per element	attenuator	001 = 1dB		B: ± 0.3dB		(lead free)
		R15 = 1,5dB		C: ± 0.4dB		
		002 = 2dB		D: ± 0.8dB		
		003 = 3dB		E: ± 1.0dB		
		004 = 4dB		F: ± 1.5dB		
		005 = 5dB		G: ± 2.0dB		
		006 = 6dB		H: ± 2.5dB		
		007 = 7dB		P: -		
		008 = 8dB				
		009 = 9dB				
		010 =10dB				
		011 = 11dB				
		012 = 12dB				
		013 = 13dB				
		014 = 14dB				
		015 = 15dB				
		016 = 16dB				
		017 = 17dB				
		018 = 18dB				
		019 = 19dB				
		020 = 20dB				

 $[\]pi$ type Attenuator (-6dB, 50W) for VSWR improvement and output frequency level matching on VCO application.



Quick Reference Data

Item	General Specification
Series No.	WA04P
Size	0402×2 (1005×2)
Termination construction	Convex type
Attenuation Range	0dB, 0.5dB ~ 20dB
Attenuation Tolerance 0dB	-
0.5dB	± 0.1dB
1dB~ 5dB	± 0.3dB
6dB~ 10dB	± 0.4dB
11dB~ 13dB	± 0.8dB
14dB	± 1.0dB
15dB~ 16dB	± 1.5dB
17dB~ 19dB	± 2.0dB
20dB	± 2.5dB
Characteristic impedance	50Ω
Rated power at Tamb=70°C	0.1 W / package
Limiting Voltage (DC)	50V
Frequency range (DC)	MAX. 3 GHz
VSWR (Voltage Standing Wave Ratio)	MAX. 1.2
Number of Resistors	3 resistors
Number of Terminals	4 terminals
Climatic category (IEC 60068)	-40 ~ 125'C

Physical Dimensions:

Unit: mm	WA04P
L	1.00±0.10
W	1.00+0.10/-0
Т	0.35±0.10
Р	0.65±0.20
Α	0.33±0.10
Та	0.15±0.10
Tb	0.25±0.10

