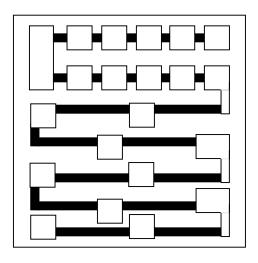
110R

Multi-Tapped Thin Film Resistor Series

OnChip Devices' 110R Series Multi-terminal resistor chip offers the hybrid designer a component that provides a wide range of resistance values on a single chip. Bonding pads segment the total resistance into ten single elements of resistance and 10X elements of resistance enabling the combination of the eight standard parts to cover the resistance range from 1,100 ohms to 275K-ohms.

Electrical Specifications					
Parameter	Test Conditions				
Temperature Coefficient of Resistance	-55°C to +125°C	$\pm 250 ppm/^{\circ}C$	Max		
Operating Voltage	-55°C to +125°C	100V dc	M a x		
Package Power Rating	@ 70°C (Derate linearly to zero @ 150°C)	250 m w	M a x		
Thermal Shock	Method 107 MIL-STD-202F	±0.25% @ΔR	M a x		
High Temperature Exposure	100 Hrs @ 150°C Ambient	±0.25% ΔR	M a x		
Moisture Resistance	Method 106 MIL-STD-202F	±0.5% ΔR	M a x		
Life	Method 108 MIL-STD-202F (125°C/1000hr)	$\pm 0.5\% \Delta R$	M a x		
Noise	Method 308 MIL-STD-202F	-20dB	M a x		
Insulation Resistance	@ 25°C	$1 \times 10^{12} \Omega$	M in		



Format

Die Size: 34±3 mils square Bonding Pads: 4x4 mils typical

VALUES				
Part Number		Nominal/Single		
	Total Resistance	Element of Resistance		
110R 1101X	$1,100\Omega$	10		
110R 2751X	$2,750\Omega$	25		
110R 5501X	$5,500\Omega$	50		
110R 1102X	11,000Ω	100		
110R 2752X	$27,500\Omega$	250		
110R 5502X	$55,000\Omega$	500		
110R 1103X	$110,000\Omega$	1,000		
110R 2753X	$275,000\Omega$	2,500		

Mechanical Specifications			
Substrate	Silicon 10±2 mils thick		
Isolation Layer	SiO ₂ 10,000Å thick, min		
	Lapped (gold optional)		
Metalization	Aluminium 10,000Å thick, min		
	(15,000Å gold optional)		

Packaging			
Two inch square trays of 400 chips maximum is standard.			

Notes			
1. The tolerance applies to the total resistance value only.			
2. Resistor pattern may vary from one value to another.			

Part Number Designation						
110R	5502	Х	G	W		
Series	Value	Tolerance	Bond Pads	Backing		
	First 3 digits are significant value. Last digit represents number of zeros. R indicates decimal point.	G = ±2%	G = Gold	W = Gold		
		J = ±5%	No Letter = Aluminium	L = Lapped		
		K = ±10%		No Letter = Either		
		M = ±20%				