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Model X2AS

SMT Crossover



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Description

The X2AS is a low profile crossover to intersect an RF and DC circuit trace in an easy to use surface mount package designed for frequencies up to 6 GHz. The X2AS is ideal for any application where an RF circuit must intersect with a DC circuit without resorting to a multilayer PCB. Parts have been subjected to rigorous qualification testing and units are 100% tested. They are manufactured using materials with x and y thermal expansion coefficients compatible with common substrates such as FR4, G-10, and polyimide.

Features:

- DC 6.0 GHz
- RF DC Crossover
- Low Loss
- DC Isolation
- Surface Mountable
- Tape And Reel
- Convenient Package
- Lead Free
- 100 % Tested

ELECTRICAL SPECIFICATIONS**					
Frequency	Port Impedance	Return Loss			
GH7	Ohms	dR Min			

н				
	GHz	Ohms	dB Min	
	DC - 2.5	50	20	
	2.5 - 4.0	50	20	
	4.0 - 6.0	50	15	
	Insertion Loss	Power	ΘJC	Operating Temp.
	dB Max	Watts	ºC / Watt	₽C
	0.05	30	250.9	-55 to +85
	0.10	15	250.9	-55 to +85
I	0.15	10	250.9	-55 to +85
1	0110	10	20010	0010100

**Specification based on performance of unit properly installed on microstrip printed circuit boards with 50 Ω nominal impedance. Specifications subject to change without notice.

Toll Free:

(800) 544-2414

Outline Drawing



and Reel For Pick and

Model X2AS

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Typical Performance: 0.5 GHz to 6.0 GHz Return Loss X2AS Insertion Loss X2AS -10 0.00 -20 -0.10 (qB) (qB) -0.20 -30 Insertion Loss Return Loss -0.30 -50 -0.40 -60 -0.50 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 500 Frequency (MHz) Frequency (MHz)

Mounting

In order for Xinger crossovers to work optimally, there must be 50Ω transmission lines leading to and from all of the RF ports. Also, there must be a very good ground to the corners of the crossover to insure proper electrical performance. If either of these two conditions are not satisfied, insertion loss, VSWR and isolation parameters may not meet published specifications.

When a surface mount crossover is mounted to a printed circuit board, the primary concerns are; insuring the RF pads of the device are in contact with the circuit trace of the PCB and insuring the ground plane of neither the component nor the PCB is in contact with the RF signal. Since the component is not symmetrical, the crossovers are specifically oriented in the tape and reel. An example of how the PCB footprint could look is shown below. In specific designs, the 50Ω lines need to be adjusted to the unique dielectric coefficients and thicknesses as well as varying pick and place equipment tolerances.



(315) 432-8909 (800) 544-2414

Available on Tape and Reel For Pick and Place

