

# DIPLEXER

DPX-2

Available in either a connectorized or miniature surface mount package (0.240 inch x 0.150 inch), the DPX-2 is a low cost, high performance diplexer. The unique design offers high pass/low pass signal routing/multiplexing with excellent isolation. Passband insertion loss is less than 1 dB with rejection typically exceeding 25 dB. Besides being ideal for transmitter/receiver applications, the DPX-2 can also be used as an excellent non-reflective low pass (or high pass) filter for systems requiring broadband  $50\Omega$  impedance match (such as mixers).



### Features

- Low Insertion Loss
- Superior Repeatability
- Low Profile Miniaturized, Reflow Solderable Package Option
- User defined cross over frequencies available

Electrical Specifications - Specifications guaranteed from -55 to +100°C, measured in a 5	0Ω system.
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Parameter	Frequency Range (GHz)	Min	Тур	Max
Cross Over Frequency	2.05		±5 %	
Low Pass Filter				
Pass Band Insertion Loss (dB)	DC to 1.5	DC to 1.5		1.2
Stop Band Rejection (dB)	2.7 to 3.5		15	
	3.5 to 7	20	25	
Pass Band Return Loss (dB)	<1.5		15	
High Pass Filter				
Pass Band Insertion Loss (dB)	2.7 to 7		0.6	1.2
Stop Band Rejection (dB)	<1	25	30	
	<1.5		15	
Pass Band Return Loss (dB)	2.7 to 7		15	
Common Port Return Loss (dB)	<1.5		15	
	2.7 to 7		15	
Isolation (dB)	<1.4	14	25	
	2.9 to 7	14	25	
RF Power (W)				1

#### **Part Number Options**

Package Style(s) <sup>1</sup>	Example	S-Parameters <sup>2</sup>	Green Status
DPX (Surface Mount)	DPX-2-1	<u>DPX-2.S3P</u>	RoHS
DPXN (Connectorized)	DPXN-2		

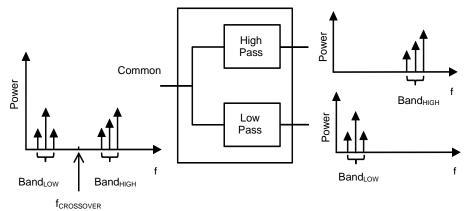
<sup>1</sup>For surface mount package, specify port configuration by adding –1 or –2 suffix to model number. Default is –2 configuration when not specified.

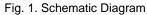
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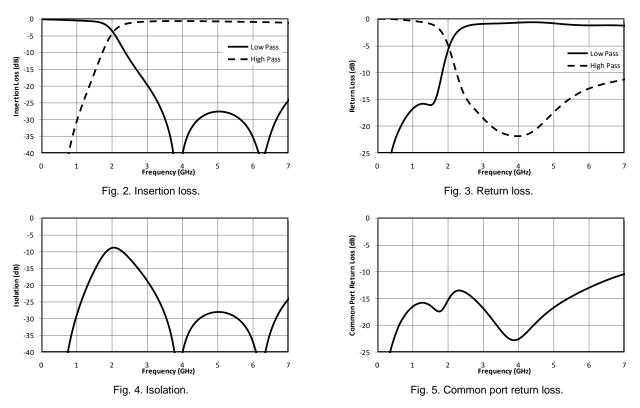
<sup>2</sup>S-Parameters include test fixture.

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