

DIPLEXER

DPX-1

Available in either a connectorized or miniature surface mount package (0.240 inch x 0.150 inch), the DPX-1 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-1 can also be used as an excellent non-reflective low pass (or high pass) filter for systems requiring broadband 50Ω 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 50Ω system.

Parameter	Frequency Range (GHz)	Min	Тур	Max
Cross Over Frequency	1.1		±5 %	
Low Pass Filter				
Pass Band Insertion Loss (dB)	DC to 0.85		0.5	1
Stop Band Rejection (dB)	1.4 to 3.3		18	
	3.3 to 5	18	22	
Pass Band Return Loss (dB)	<0.85		20	
High Pass Filter				
Pass Band Insertion Loss (dB)	1.4 to 5		0.6	1.2
Stop Band Rejection (dB)	<0.6	24	30	
	<0.85		18	
Pass Band Return Loss (dB)	1.4 to 5		15	
Common Port Return Loss (dB)	<0.85		20	
	1.4 to 5		15	
Isolation (dB)	<0.75	14	24	
	1.5 to 5	14	24	
RF Power (W)				1

Part Number Options

Package Style(s) ¹	Example	S-Parameters ²	
DPX (Surface Mount)	DPX-1-1	DPX-1.S3P	
DPXN (Connectorized)	DPXN-1		

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

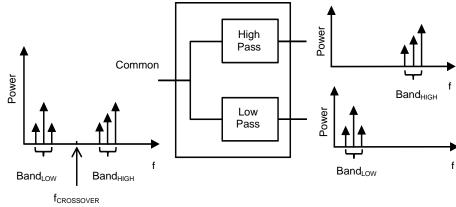
²S-Parameters include test fixture.

215 Vineyard Court, Morgan Hill, CA 95037 | Ph: 408.778.4200 | Fax 408.778.4300 | info@markimicrowave.com



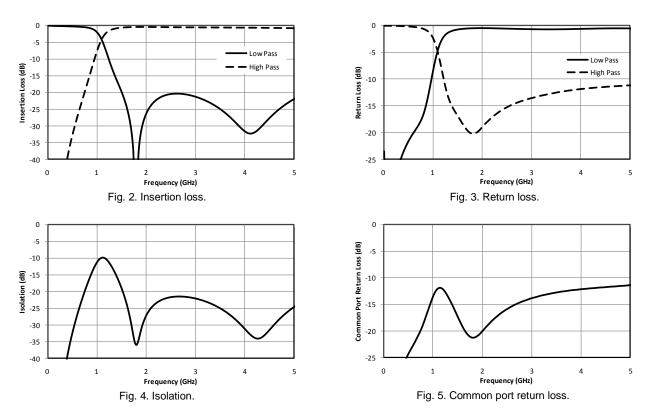
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