

DPX1326F - PRELIMINARY

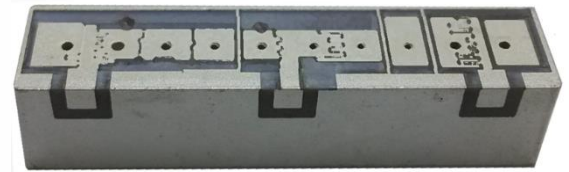
Band 12+13 vs 5/26 DPX Series Diplexer

Features

- Extended version of DPX1326A with support to 915MHz
- Frequency combining of closely spaced frequency bands
- Superior power handling and reliability
- Universal footprint across all DPX series products

Applications

- Wireless Infrastructure applications
- Multi-band Pico Cells, Femto-cells, Repeaters and indoor DAS systems for up to 1.0W/band at the antenna port.



Part Dimensions: 31.7 × 8.1 × 7.6 mm • 12 g
Materials: Ag plated ceramic block

Description

Surface mount ceramic diplexer supports a universal footprint across all DPX series products enabling the use of a common system PCB. Provides superior rejection, insertion loss, reliability, and power handling.

Electrical Specifications

Parameter	Frequency (MHz)	Typical at 25°C	Spec. at 25°C	Spec. over -40°C to +85°C
Nominal Impedance	-	50 ohms	-	-
Average Input Power	-	-	-	3.0 Watt max
Peak Input Power	-	-	-	30 Watt max

Low-Band to Antenna Response

Passband Insertion Loss (5 MHz avg)	663-776		0.9 dB max	1.1 dB max
(5 MHz avg)	777-787		1.3 dB min	1.5 dB min
Passband Return Loss	663-787		10 dB min	10 dB min
Attenuation:	814-849		20 dB min	18 dB min
	859-915		>40 dB min	>40 dB min

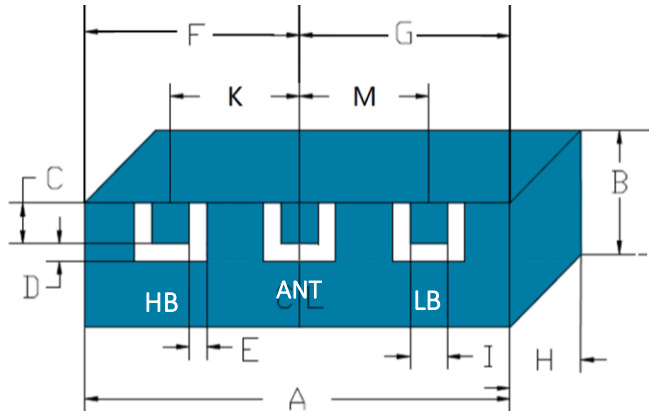
High-Band to Antenna Response

Passband Insertion Loss (5 MHz avg)	814-824		1.3 dB min	1.5 dB min
(5 MHz avg)	824-915		0.9 dB max	1.1 dB max
Passband Return Loss	814-915	11 dB	10 dB min	10 dB min
Attenuation:	663-698	40 dB	35 dB min	35 dB min
	699-787	24 dB	20 dB min	20 dB min

Note: CTS tests each unit to the critical specifications above. Subsequent audits may deviate due to repeatability among different test systems which shall not exceed these allowances.

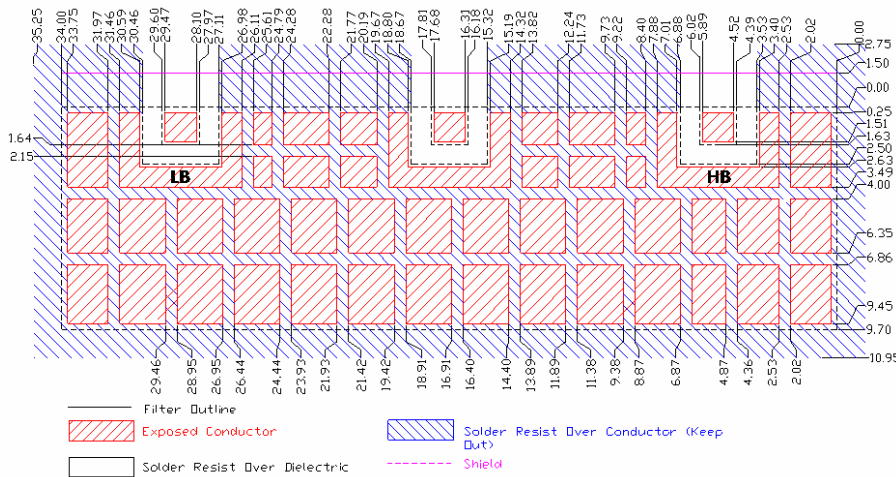
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB

Mechanical Drawing



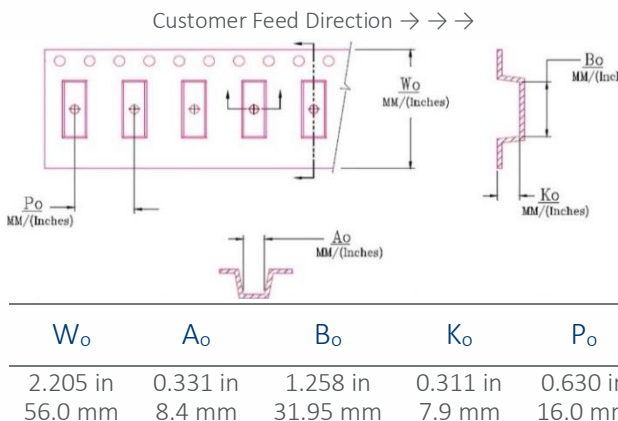
Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	31.67	Max
B	8.10	Max
C	1.63	0.13
D	0.86	0.13
E	0.86	0.13
F	15.84	0.13
G	15.84	0.13
H	7.60	Max
I	1.63	0.13
K	11.79	0.13
M	11.79	0.13

PCB Layout



Packaging and Marking

Dimension	Units	Spec.	Product Marking
Reel Diameter	mm	330	<div>CTS</div> <div>326F</div> <div>YWW</div>
Reel Weight	kg	3.8	
Reel Quantity	ea.	250	



Electrical Response

