

RoHS Compliant



DPX0528E

Band 5+8 vs subset of 28 DPX Series Diplexer

Features

- Frequency combining of closely spaced frequency bands
- Able to use for Band 5 or 8
- Able to use for Band 12, 13, 17 or subset of Band 28
- 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.



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	698-788		1.6 dB max	1.6 dB max
Passband Insertion Loss Passband Return Loss	698-788 698-788	11 dB	1.6 dB max 10 dB min	1.6 dB max 10 dB min
Passband Return Loss		11 dB		
	698-788	11 dB		10 dB min
Passband Return Loss Attenuation:	698-788	11 dB		10 dB min
Passband Return Loss Attenuation: High-Band to Antenna Response	698-788 824-960	11 dB	10 dB min	10 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

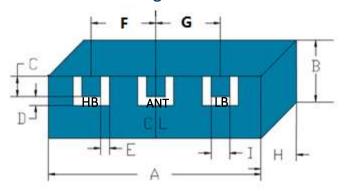
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Mechanical Drawing

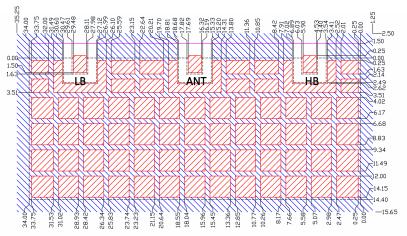


Dim.	Nominal (mm)	Tolerance (±mm or Max)
Α	34.0	Max
В	12.0	Max
С	1.63	0.13
D	0.86	0.13
Е	0.86	0.13
F	11.79	0.13
G	11.79	0.13
Н	6.60	Max
1	1.63	0.13

PCB Layout

44.0 mm

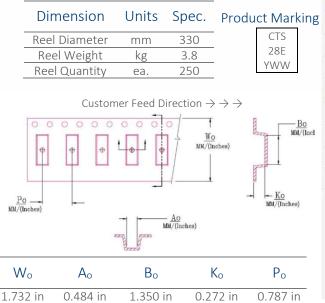
12.3 mm





Solder Resist Over Dielectric

Packaging and Marking



34.3 mm

6.9 mm

20.0 mm

Electrical Response

