



Features

- Low Loss with High Rejection
- Superior power handling and reliability
- Universal footprint across all FDD frequency bands
- Sufficient rejection for co-location with Band 1

Applications

Wireless Infrastructure applications

Subsequent audits may deviate due to repeatability among

different test systems which shall not exceed these allowances.

- High-performance carrier-grade Pico-cells using linearized
 PA for 0.25-0.5W and linear PA to 1.0W at the antenna port.
- Wide-band femto-cells or pico-cells requiring multi-channel or carrier aggregation.



Part Dimensions: $44.2 \times 10.4 \times 8.5$ mm • 12.2 g Materials: Ag plated ceramic block with tin plated brass shield

Description

Surface mount ceramic duplexer supports a universal footprint across all FDD frequency bands enabling the use of a common system PCB. Provides superior rejection, insertion loss, reliability, as well as both peak and average power handling compared to other duplexer technologies.

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
Antenna to UL Response				
Passband Insertion Loss (5 MHz avg)	1710-1785	2.7 dB	2.9 dB max	3.0 dB max
Passband Ripple (20 MHz avg)	1710-1785	2.2 dB	3.0 dB max	3.0 dB max
Passband Return Loss	1710-1785	14 dB	12 dB min	12 dB min
Attenuation:	1805-1880	58 dB	55 dB min	55 dB min
DL to Antenna Response				
Passband Insertion Loss (5 MHz avg)	1805-1880	2.7 dB	2.9 dB max	3.0 dB max
Passband Ripple (20 MHz avg)	1805-1880	2.2 dB	3.0 dB max	3.0 dB max
Passband Return Loss	1805-1880	14 dB	12 dB min	12 dB min
Attenuation:	1710-1785	61 dB	60 dB min	60 dB min
	1920-1980	26 dB	25 dB min	25 dB min
DL to UL Response				
Attenuation for UL band	1710-1785	62 dB	61 dB min	61 dB min
Attenuation for DL band	1805-1880	59 dB	56 dB min	56 dB min
Note: CTS tests each unit to the critical specifications above.		Specification Allowance		

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Insertion Loss

Return Loss

Attenuation

0.1 dB

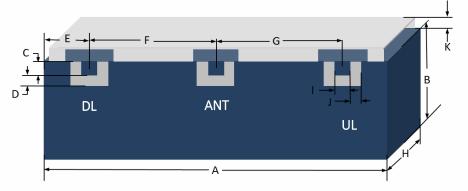
1.0 dB 1.0 dB



PRELIMINARY - UPD003B

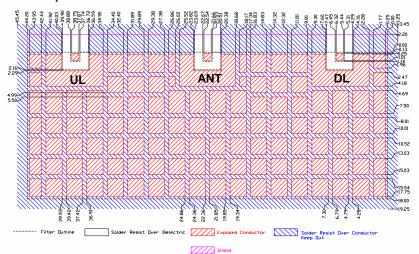
Band 3 UPD Series Duplexer

Mechanical Drawing

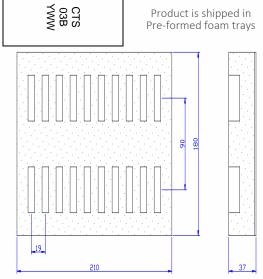


Dim.	Nominal (mm)	Tolerance (±mm or Max)
Α	43.90	0.30
В	8.40	0.30
С	1.10	0.13
D	1.10	0.13
Е	5.88	0.13
F	16.22	0.13
G	16.22	0.13
Н	8.30	0.20
-	1.00	0.13
J	1.00	0.13
K	1.50	0.13

PCB Layout



Packaging and Marking



The trays have 20 slots each with one filter per slot. Boxes are packed with 12 Trays per box for a total of 240 filters per box.

Electrical Response

