

UPD066E - PRELIMINARY

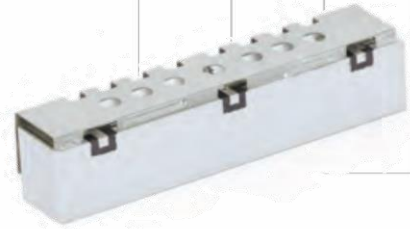
Band 66 UPD Series Duplexer

Features

- Extension of Band 66 to include Uplink of B70
- Low Loss with High Rejection
- Superior power handling and reliability
- Universal footprint across all FDD frequency bands

Applications

- Wireless Infrastructure applications
- 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: <44.3 x <11 x <10 mm • <13 g est.
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)	1695-1780	<1.5 dB max EST
Passband Return Loss	1695-1780	12 dB min EST
Attenuation:	2110-2200	>58 dB min EST
	1930-2020	37 dB min EST
	1850-1920	20 dB min EST

DL to Antenna Response

Passband Insertion Loss (5 MHz avg)	2110-2200	<1.8 dB max EST
Passband Return Loss	2110-2200	12 dB min EST
Attenuation:	1695-1780	>61 dB min EST
	1781-1920	37 dB min EST
	1930-2020	20 dB min EST
	2305-2690	37 dB min EST

DL to UL Response

Attenuation for UL band	1695-1780	>62 dB min EST
Attenuation for DL band	2110-2200	>59 dB min EST

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.

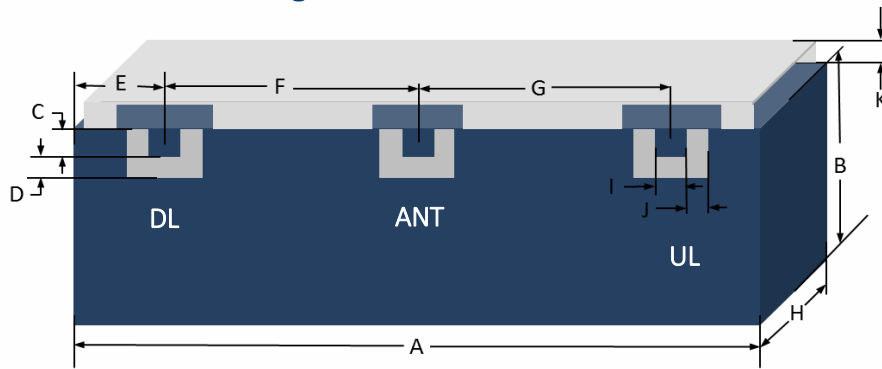
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB



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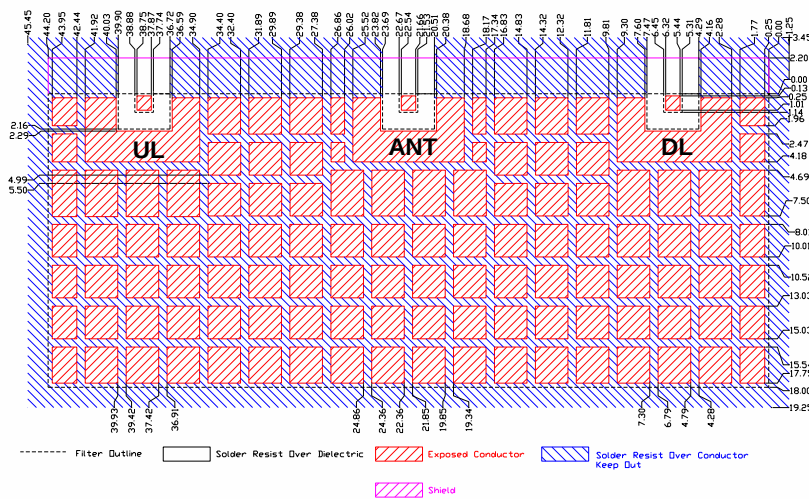
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Mechanical Drawing

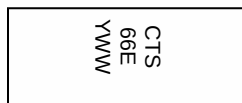


Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	43.90 ???	0.30
B	7.90 ???	0.30
C	1.10	0.13
D	1.10	0.13
E	5.88	0.13
F	16.22	0.13
G	16.22	0.13
H	8.20 ???	0.20
I	1.00	0.13
J	1.00	0.13
K	1.60 ???	0.20

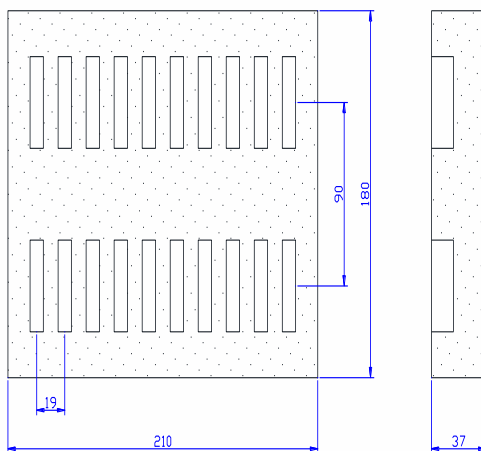
PCB Layout



Packaging and Marking



Product is shipped in
Pre-formed foam trays



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

