

## Duplexer for UMTS 2100Mhz

Model : PW-DF-1920-10/2110-10

### Description :

PW-DF-1920-10/2110-10 is a filter for use on UMTS/WCDMA/3G which able to separate Downlink Channel & Uplink Channel with minimum insertion loss and high OUT-BAND Rejection. All Pacific Wave Filter are temperature compensated which ensures full performance over the operation temperature Range (-10 till +65 Celsius).

### Product Advantages :

Compact Design, High Performance and Flexible Mounting Option.  
Integrated and Low Passive Inter-modulation Product Compact with Indoor Rated Design.  
High Selective Filter with Low Insertion Loss and Reliable Technical Performance.

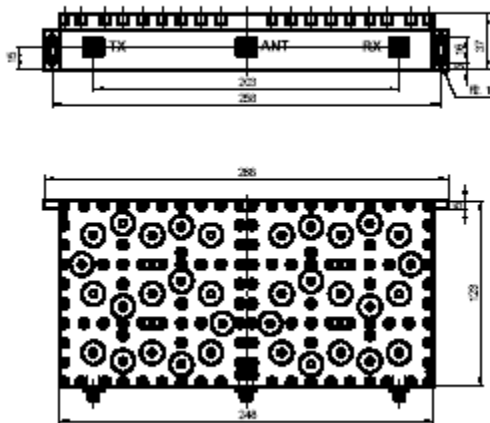
### Technical Specification :

| Parameter         | Unit | Rx  | Tx  |
|-------------------|------|---|---|
| Frequency Range   | MHz  | 1920 – 1930   | 2110 – 2120   |
| Band-width        | MHz  | 10  | 10  |
| IL at BW          | dB   | ≤1.1  | ≤1.1  |
| Ripple at BW      | dB   | ≤ 0.6   | ≤ 0.6   |
| Return loss at BW | dB   | 18  | 18  |
| Rejection         | dB   | ≥ 90 @DC - 1800 Mhz<br>≥ 90 @1800-1840 Mhz<br>≥ 60 @1840-1880 Mhz<br>≥ 15 @1880-1910 Mhz<br>≥ 15 @1940-2020 Mhz<br>≥ 60 @2020-2060 Mhz<br>≥ 90 @2060-2170 Mhz<br>≥ 80 @2170-3800 Mhz<br>≥ 60 @3800-12.75Ghz | ≥ 90 @DC - 1920 Mhz<br>≥ 90 @1920-2030 Mhz<br>≥ 60 @2030-2070 Mhz<br>≥ 15 @2070-2100 Mhz<br>≥ 15 @2130-2210 Mhz<br>≥ 60 @2210-2250 Mhz<br>≥ 90 @2250-2400 Mhz<br>≥ 80 @2400-3800 Mhz<br>≥ 60 @3800-12.75Ghz |
| Isolation         | dB   | ≥ 90 @Tx  | ≥ 90 @Rx  |
| In/Out Impedance  | Ohm  | 50  |   |
| Power Handling    | Watt | 100   |   |

|                   |      |                                      |
|-------------------|------|--------------------------------------|
| Connectors        | Type | SMA-Female or N-Female or DIN-Female |
| Return Loss       | dB   | $\geq 20$                            |
| PIM               | dBc  | $\leq -140 @ 2x+43dBm$               |
| Dimensions        | mm   | 337 x 117 x 50 for Wall Mounted      |
| Temperature Range | °C   | -10 ~ +65                            |

### Outline Option :

#### A. Wall Mounted



#### B. 19" Rack Mounted

