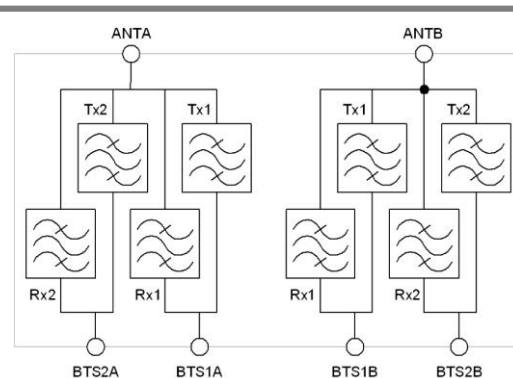




Features:

- Filtronic Proprietary, Architecture Significantly Reduced Overall Size, Weight and Cost
- Able to Combine 2 Contiguous LTE800 Blocks With Narrow Guard band, 1MHz
 - 5.5MHz centre-to-centre for 5MHz LTE
 - 10MHz centre-to-centre for 10MHz LTE
- Very Low Loss, < 0.5 dB Typical
- High Power Handling – 3KW per Input
- Sealed to IP67 for Outdoor Installations

Filter Specifications

Passband BTS1A / BTS1B
 Passband BTS2A / BTS2B
 Cross Over Point BTS1/BTS2
 Guard Band BTS1/BTS2

5/10MHz LTE block factory tuneable within 800MHz band
 Factory tuneable to any LTE block size within 800MHz band
 Factory tuneable within 800MHz band
 1MHz, 10MHz Carrier spacing for two 10MHz LTE signals

Uplink (RX) Specifications

Insertion Loss
 BTS1A, to ANTA, BTS1B to ANTB
 BTS2A, to ANTA, BTS2B to ANTB
 Return Loss

0.65dB (10MHz LTE), 1.3dB CW
 0.65dB (10MHz LTE), 1.3dB CW
 > 18 dB

Downlink (TX) Specifications

Insertion Loss
 BTS1A, to ANTA, BTS1B to ANTB
 BTS2A, to ANTA, BTS2B to ANTB
 Return Loss
 IMD in RX Band
 Input Power
 Power Conditions

0.65dB (10MHz LTE), 1.3dB CW
 0.65dB (10MHz LTE), 1.3 CW
 > 18 dB
 < -118 dBm (2 x +43dBm tones)
 > 150W RMS, >3.0kW PIP
 2:1 Antenna VSWR, +65C Case Temp



Filtronic

PCC055-Dual MIMO Contiguous 800/800 In-Band Combiner

LTE Downlink (TX)

LTE Uplink (RX)

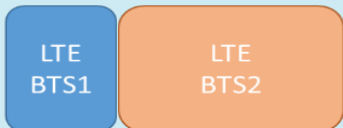
1 MHz

1 MHz

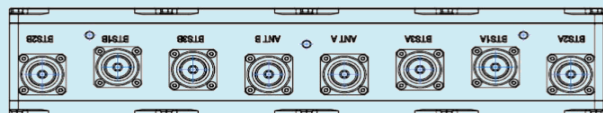
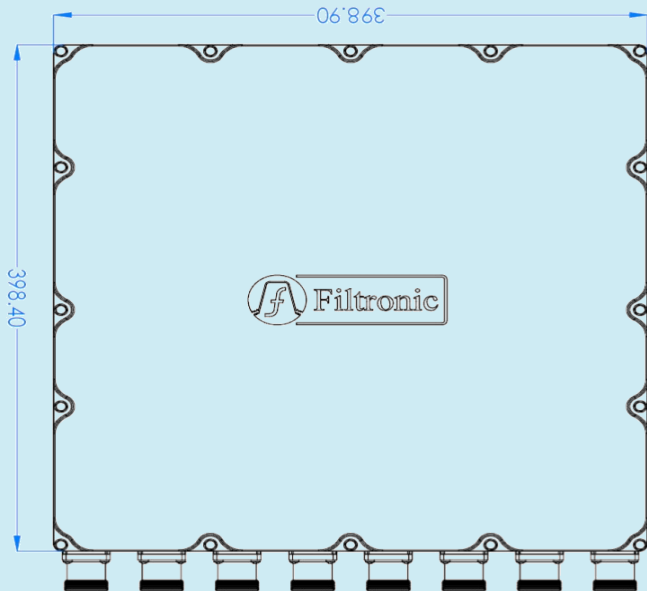
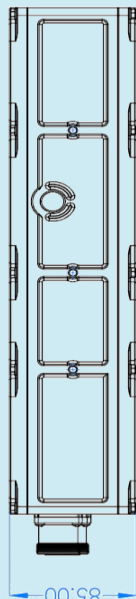


801.0 810.5 811.5 821.5

842.0 851.5 852.5 862.0



791.0 800.5 801.5 821.5 832.0 841.5 842.5 862.0



BTS to BTS Isolation

BTS 1A – BTS 2A / BTS 1B – BTS 2B

> 20dB in RX Band,
> 30dB in TX Band

Configuration Example

Passband BTS1A / BTS1B

Passband BTS2A / BTS2B

811.5 to 821.0 MHz TX, 852.5 to 862.0 MHz

801.0 to 810.5 MHz TX, 842.0 to 851.5 MHz

Mechanical

Connectors

Dimensions

Weight

Colour

Mounting arrangements

6 x 7/16 DIN Female, Long Neck

399 x 350 x 85 mm

Excluding Connectors and mounting brackets

10.5 kg (23.14 lbs)

Light grey powder coat

Pole, Tray or Wall

Environmental

Operating Temp (°C)

Altitude

Ingress Protection

RoHS/WEEE

Salt Fog

-30 to +50

2500 m

IP67

Compliant

GR-487

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DTS-PCC055

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