WSA-00178 PCS Fullband TTLNA

Features:

- Full Duplex Configuration
- Psuedo-Elliptic Filter Configurations for Low Loss and High Rejection
- Ultra-Low Noise Figure < 1.7 dB Typical
- Automatic Bypass Under Soft/Hard Fail Conditions
- +10V to +15V Operating Voltage via Bias Tee on BTS Cable Center Contact
- Integrated Assembly-to-BTS Lightning Protection

Specifications:

Receive Path Specifications:

Receive Passband: 1850 to 1910 MHz LNA Construction: Single Stage, Two-Branch

Quadrature, Balanced

Gain: 12 dB minimum 16 dB maximum

Noise Figure: < 1.7 dB typical,

2.1 dB maximum Passband Return Loss: 15 dB minimum

Input IP3: +15 dBm minimum, +17 dBm typical

Maximum Input Power: +17 dBm non-destructive

Receive Preselect Attenuation:

(relative to passband)

DC to 1740 MHz -70 dBc minimum -45 dBc minimum 1710 to 1795 MHz 1795 to 1822.5 MHz -23 dBc minimum 1822.5 to 1832.5 MHz -10 dBc minimum @ 1920 MHz -10 dBc minimum 1930 to 1990 MHz -70 dBc minimum

Alarm Circuit Operation: (into bypass mode)

Alarm Mode 1 Bias Current Window

Monitoring

Alarm Mode 2 Bias Tee Input Voltage < +10 VDC or > +15VDC

2.5 dB maximum Insertion Loss in Bypass Mode:

Transmit Specifications:

Transmit Passband: Passband Insertion Loss: 0.5 dB maximum Passband Return Loss: 18 dB minimum

1930 to 1990 MHz

Transmit Filter Attenuation: Receive Passband

Passband Power Handlina:

Average

Peak Instantaneous

Assembly Specifications:

TTLNA Configuration: Full Duplex Characteristic Impedance: 50 ohms

Power Supply:

+10VDC to +15 VDC Voltage Via Bias Tee-Center

BTS Connector 200 mA maximum

-40 dBc minimum

100 watts

1500 watts

Current Proposed Dimensions: 11.6" x 8.7" x 3.5"

(295mm x 221mm x 89mm) (including mounting feet & connectors) 7/16-F

Connectors:

Surge Suppression:

Antenna Port 14 AWG DC Ground **BTS** Port Per IEC 1000-4-5

8/20uS @ 20 kA 10/350uS @ 5 kA

Aluminum, Silver Plated Housing:

Weight: 10 lbs nominal

Environmental: Per IP65

Exterior Finish: Gray Polyurethane Paint

Per RAL7035 Wind Loading: 10 lbs @ 100 mph

Temperature Range:

-40°C to +60°C Operational Storage -40°C to +85°C Calculated MTBF: > 200,000 hours

Applications:

• Outdoor Installation on Tower to Enhancement Uplink in Cellular Systems

Filtering Solutions for Your Global Market

USA

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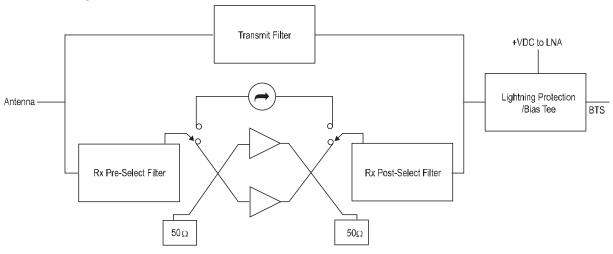
Email: sales@klmicrowave.com **EUROPE**

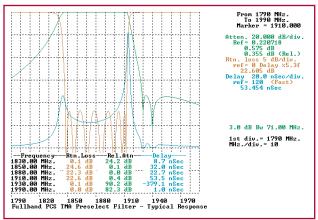
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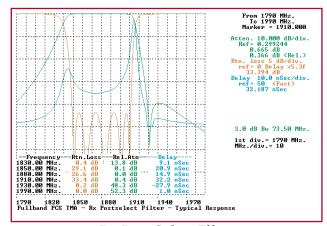


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Outline Drawing:

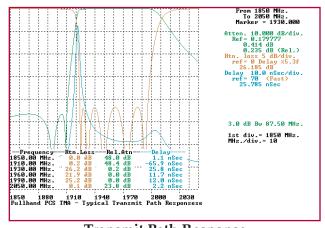






Rx Preselect Filter

Rx Post Select Filter



Transmit Path Response

Filtering Solutions for Your Global Market

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