

Features

- GSM 2100 MHz Front-end Unit (FEU) composed of Duplexer, low noise figure LNA Module, power combiner, switches etc.
- Suitable for GSM 2100 MHz Tower Mounted System Repeaters.
- Very compact size and low weight.

Technical Characteristics

Duplexer (TX) Path

Frequency band	2105 MHz ~ 2125 MHz
Bandwidth	20 MHz
Insertion Loss	0.6 dB _{typ.}
Return Loss, all ports	20 dB _{min.}
Isolation	90 dB _{Cmin.} (@ 1915 MHz ~ 1935 MHz)
Continuous Average Power	150 W _{max.}

Uplink (Rx1, Rx2) Path

Frequency band	1915 MHz ~ 1935 MHz
Bandwidth	20 MHz
Gain	22 dB _{nominal}
Noise Figure	1.8 dB _{typ.} , 2.2 dB _{max.}
Isolation	90 dB _{Cmin.} (@ 2105 MHz ~ 2125 MHz)
Return Loss, normal mode all ports	18 dB _{min.}

Downlink (Tx1, Tx2) Path

Frequency band	2105 MHz ~ 2125 MHz
Bandwidth	20 MHz
Insertion Loss	35 dB _{typ.}
Return Loss, normal mode all ports	18 dB _{min.}
Insertion Loss, Bypass Mode	0.6 dB _{max.}

Environmental

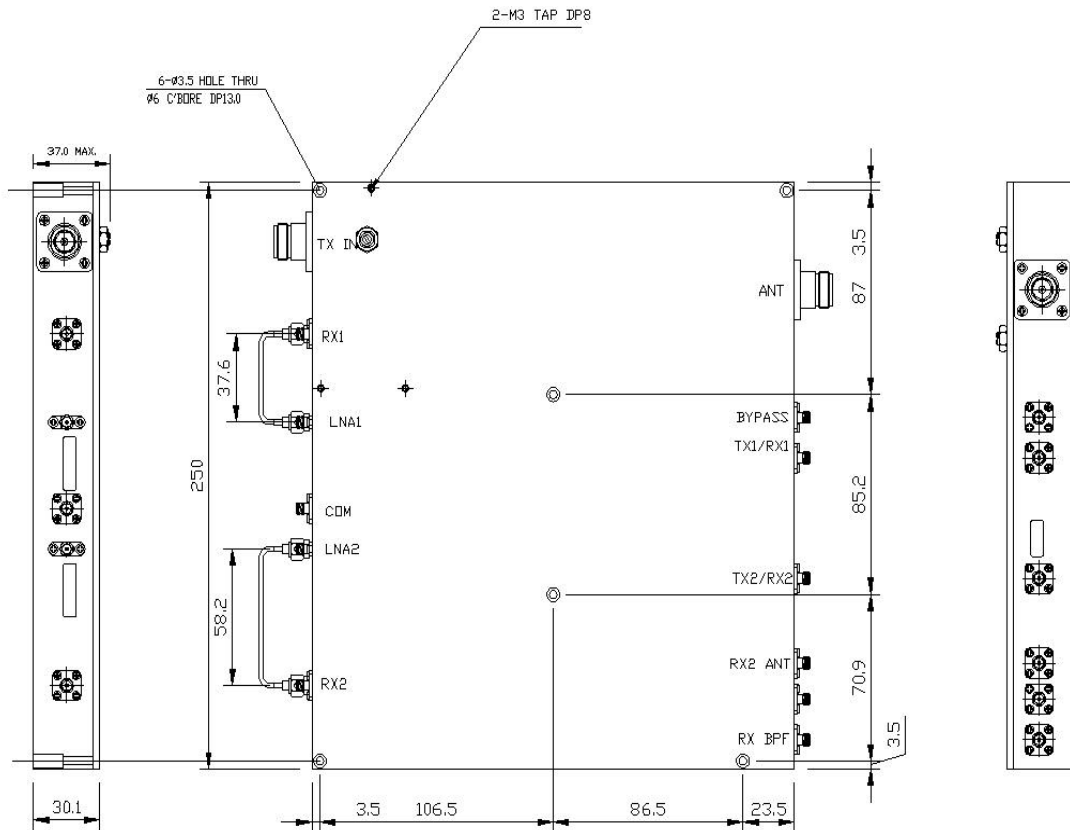
Operating temperature range	-30 to +65 °C
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Mechanical

Dimensions ¹⁾	220 x 250 x 30.1 mm
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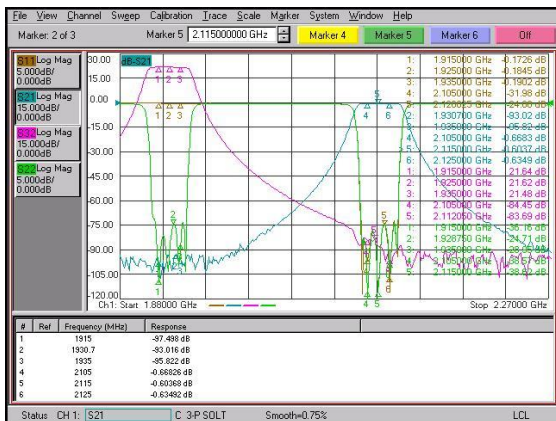
1) Excluding connectors, and mounting bracket extension

Outline Drawing

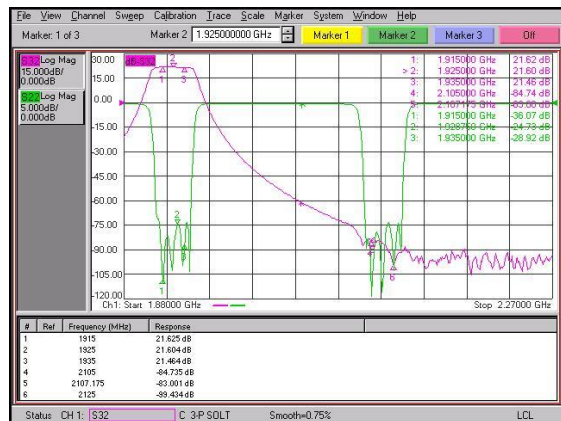


Units : mm, Tolerance : +/- 0.2 mm

Typical Response



Duplexer Tx Path Transmission



Rx Path Transmission