

Features

- GSM ADPX 950A composed of Duplexer.
- Suitable for GSM ADPX 950A Tower Mounted System Repeaters.
- Ultra low PIMD (Passive Intermodulation) Characteristics.
- Very compact size and low weight.

Technical Characteristics

Duplexer (TX) Path

| | |
|-------------------------------|---|
| Frequency band | 940 MHz ~ 960 MHz |
| Bandwidth | 20 MHz |
| Insertion Loss | 0.7 dB _{typ.} |
| Return Loss, all ports | 20 dB _{min.} |
| Out of Band Rejections | 37 dB _{Cmin.} (@ 965 MHz) |
| Isolation | 105 dB _{Cmin.} (@ 895 MHz ~ 915 MHz) |
| Continuous Average Power | 100 W _{max.} |
| Intermodulation ¹⁾ | -107 dB _{mmax.} |

Duplexer (Rx1) Path

| | |
|------------------------|---|
| Frequency band | 895 MHz ~ 915 MHz |
| Bandwidth | 20 MHz |
| Insertion Loss | 0.8 dB _{typ.} |
| Return Loss, all ports | 20 dB _{min.} |
| Out of Band Rejections | 67 dB _{Cmin.} (@ 885 MHz) |
| Isolation | 105 dB _{Cmin.} (@ 940 MHz ~ 960 MHz) |

Environmental

| | |
|-----------------------------|---------------|
| Operating temperature range | -30 to +65 °C |
|-----------------------------|---------------|

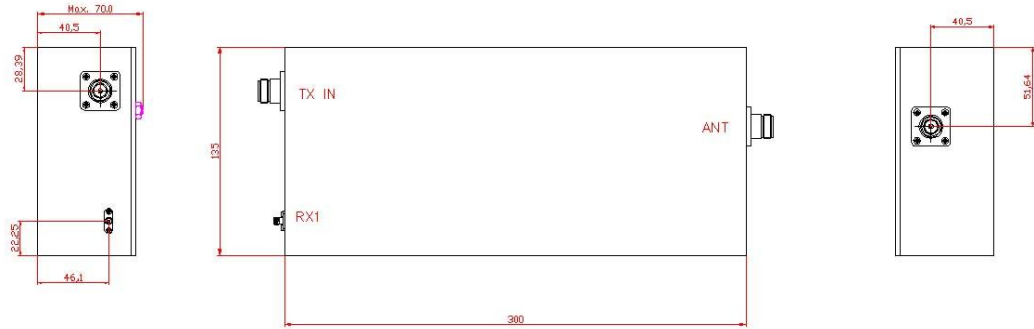
Mechanical

| | |
|--------------------------|-------------------|
| Dimensions ²⁾ | 300 x 135 x 70 mm |
|--------------------------|-------------------|

1) 2 x 47 dBm(50 W CW, 940 MHz & 960 MHz) is applied at Duplexer Tx. port and measure 3rd (920 MHz) and 5th (900 MHz) IM signals at Rx. port.

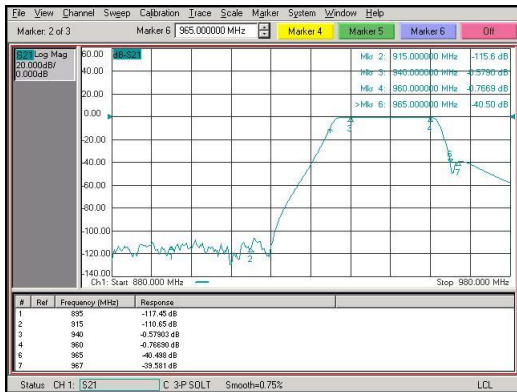
2) Excluding connectors, and mounting bracket extension

Outline Drawing



Units : mm, Tolerance : +/- 0.2 mm

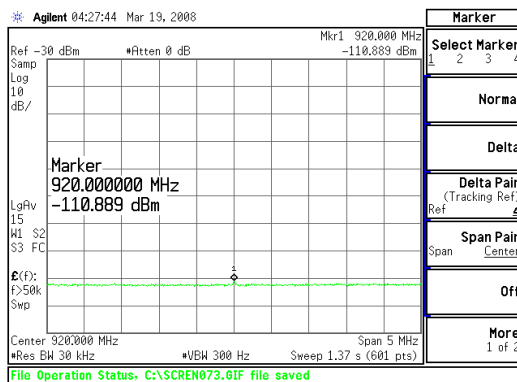
Typical Response



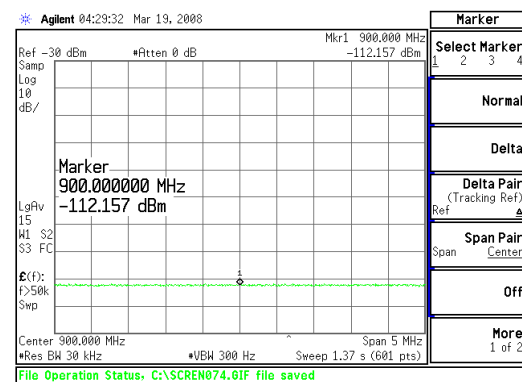
Tx path Transmission



Rx path Transmission



3rd PIMD Characteristics



5th PIMD Characteristics