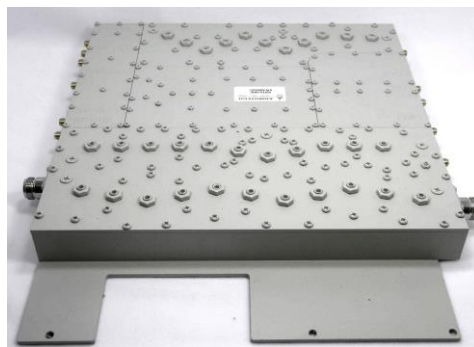


### Features

- DCS 1800 MHz Front-end Unit (FEU) composed of Duplexer, Low Noise Amplifier, power combiner, switches etc.
- Suitable for DCS 1800 MHz Tower Mounted Amplifier.
- Very compact size and low weight.



### Technical Characteristics

#### Duplexer (TX) Path

Frequency band	1814 MHz ~ 1829 MHz
Bandwidth	15 MHz
Insertion Loss	0.6 dB <sub>typ.</sub>
Return Loss, all ports	20 dB <sub>min.</sub>
Out of Band Rejections	18 dB <sub>min.</sub> (@ 1800 MHz)
Isolation	90 dB <sub>Cmin.</sub> (@ 1719 MHz ~ 1734 MHz)
Continuous Average Power	150 W <sub>max.</sub>

#### Uplink (Rx1, Rx2) Path

Frequency band	1719 MHz ~ 1734 MHz
Bandwidth	15 MHz
Gain	22 dB <sub>nominal</sub>
Noise Figure	1.8 dB <sub>typ.</sub> , 2.2 dB <sub>max.</sub>
Isolation	90 dB <sub>Cmin.</sub> (@1814 MHz ~ 1829 MHz)
Return Loss, normal mode all ports	18 dB <sub>min.</sub>

#### Downlink (Tx1, Tx2) Path

Frequency band	1814 MHz ~ 1829 MHz
Bandwidth	15 MHz
Insertion Loss	35 dB <sub>typ.</sub>
Return Loss, normal mode all ports	18 dB <sub>min.</sub>
Insertion Loss, Bypass Mode	0.6 dB <sub>max.</sub>

#### Environmental

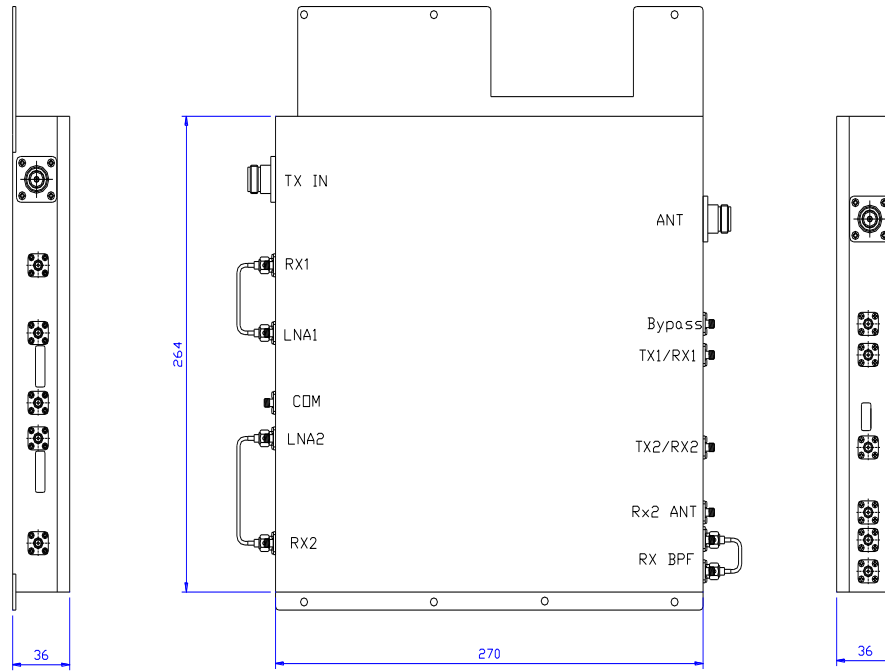
Operating temperature range	-30 to +65 °C
-----------------------------	---------------

#### Mechanical

Dimensions <sup>1)</sup>	264 x 270 x 36 mm
Weight	4.4 kg

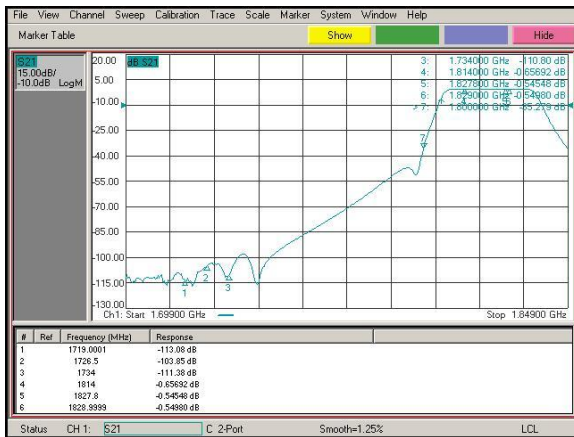
1) Excluding connectors, and mounting bracket extension

# Outline Drawing



Units : mm, Tolerance : +/- 0.2 mm

# Typical Response



Duplexer Tx. Path Transmission



Rx Path Transmission