

ISCO INTERNATIONAL



AWS Duplexer With High Performance MMDS Protection

Part #15200-2155

ISCO's AWS Duplexer with MMDS Protection solves the problem of out-of-band emissions (OOBE) from AWS LTE stations which may interfere with adjacent spectrum being used for Multichannel Multipoint Distribution Service (MMDS) above 2155 MHz. The closer AWS towers and MMDS receive sites get, the more likely AWS will cause harmful interference within the adjacent band. A filter on the AWS transmitter prevents out-of-band emissions, fulfilling the FCC requirement for the AWS licensee to protect other licensees from interference.

AWS Duplexer Features:

- Dual path design to protect MMDS operators' networks with minimal cost and size/weight tradeoff
- Low insertion loss
- Provides pass through of DC and RET signals
- Flexible mounting for indoor or outdoor installations, including on rooftops and towers

AWS Duplexer Benefits:

- Eliminate OOBE between AWS and MMDS spectrum
Pass AWS signals from 2110 – 2154 MHz and suppress AWS emissions above 2155 MHz
- Handle multiple paths with one unit
Dual path design provides cost-effective coverage
- Introduce equipment without sacrificing performance
New equipment adds protection without adversely affecting noise floor
- Accommodate any installation requirements
Available for wall or pole mounting in any environment

***Provides protection between
AWS and MMDS signals***

*See back for technical information
and specifications*

Technical Information and Specifications

AWS Duplexer

Part #15200-2155

TX Path: 2110-2155

Insertion Loss	2110-2154	1.8 dB max @ 25°C 2.5 dB max @ -10 to 65°C
Return Loss	2110-2154	17.7 dB max (1.3 min)
Rejection	2155-2162	30 dB min @ 25°C 30 dB min @ -10 to 65°C
Group delay	2110-2154	450 ns max @ -10 to 65°C

RX Path: 1710-1755

Insertion Loss	1710-1755	0.3 dB max @ 25°C 0.5 dB max @ -10 to 65°C
Return Loss	1710-1755	17.7 dB max (1.3 min)

Environmental/Electrical/Mechanical Specifications

Temperature	-10° to + 65° C	
Maximum Input Power	100W Average	
Weight	14.5 lbs (6.5 kg)	
Connector	In	7/16 DIN Female
	Out	7/16 DIN Female

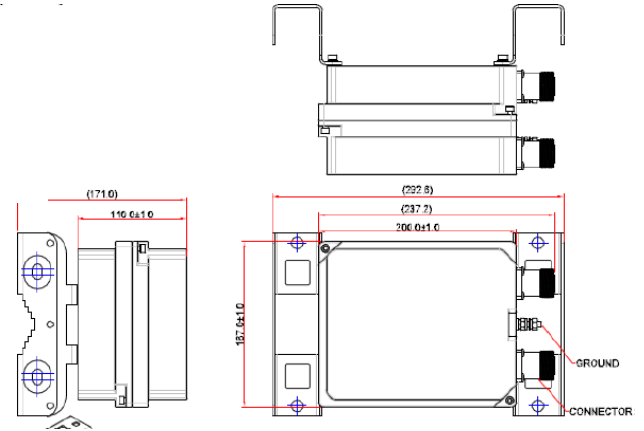
Mechanical Interface

Dimensions (H x W x D)

110 x 187 x 210 mm

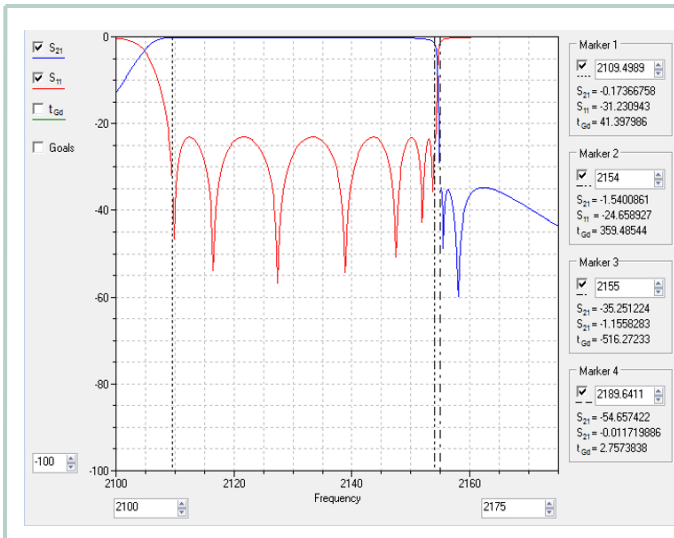
4.4 x 7.5 x 8.3 in

dual unit without connectors or bracket

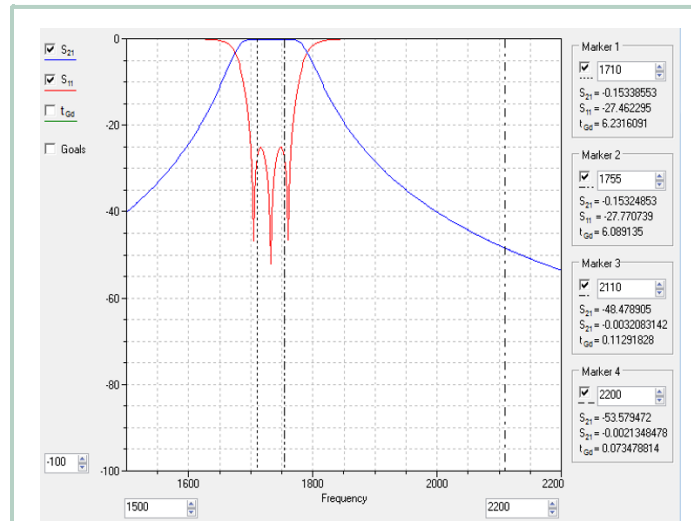


Frequency Response

TX Band



RX Band



00.013.678 REV 2

ISO 9001:2015 Registered

*All specifications subject to change without notice.
Please contact ISCO International for complete performance data.*