W-CDMA • UMTS • GSM • EDGE • 4G • HSDPA • HSUPA • DAS • WiMAX • CDMA • EV-DO • 3G • LTE • SC-FDMA • WiFi • PCS • AWS

ISCO INTERNATIONAL

VERDIUM®

ISCO's RF Performance Products

AWS BAS Filter

High Performance Protection

Part #15200-173

ISCO's AWS BAS Filter solves the problem of out-of-band emissions (OOBE) from AWS LTE stations which may interfere with Broadcast Auxiliary Service in adjacent spectrum. TV stations use the BAS Spectrum in the 2.1 GHz band for relaying live video from Electronic News Gathering equipment at events to central receive sites. The closer AWS towers and BAS receive sites get, the more likely AWS will cause harmful interference within the BAS band. A filter on the AWS transmitter prevents out-of-band emissions, fulfilling the FCC requirement for the AWS licensee to protect BAS licensees from interference.

AWS BAS Filter Features:

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

AWS BAS Filter Benefits:

- Eliminate OOBE between AWS and Broadcast Auxiliary Service spectrum
  Pass AWS signals above 2110 MHz and suppress AWS emissions below 2110 MHz
- Addresses AWS extended band
  Cover the full AWS-1 and AWS-3 bands
- Handle multiple paths with one unit
  Quad 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 TV broadcast signals

See back for technical information and specifications

VERDIUM® ISCO's RF Performance Products

Technical Information and Specifications

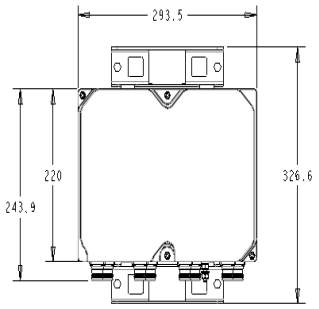
AWS BAS Filter

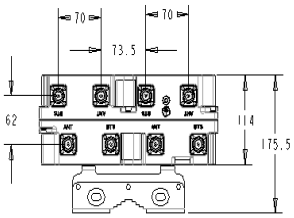
Part #15200-173

TX Path: 2110-2180		
Insertion Loss	2110.3-2110.5	1.5 dB max @ 25°C 2.3 dB max @ -40 to 65°C
	2110.5-2180	0.8 dB max @ 25°C 1.0 dB max @ -40 to 65°C
Return Loss	2110-2180	17.7 dB max (1.3 min)
Rejection	2097.5-2109.5	30 dB min @ 25°C 30 dB min @ -40 to 65°C
Group Delay	2110.3	500 ns max @ 25°C 800 ns max @ -40 to 65°C
	2111	350 ns max @ -40 to 65°C
RX Path: 1710-1780		
Insertion Loss	1710-1780	0.3 dB max @ 25°C 0.5 dB max @ -40 to 65°C
Return Loss	1710-1780	17.7 dB max (1.3 min)
Environmental/Electrical/Mechanical Specifications		
Temperature		-40º to +65º C
Maximum Input Power		100W Average
Weight		27.25 lbs (12.4 kg)
Connector	In	4.3-10
	Out	4.3-10

Mechanical Interface

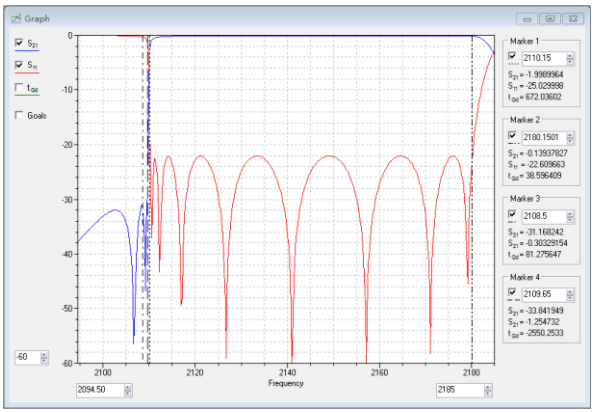
Dimensions (H x W x D)
220 x 294 x 114 mm
8.7 x 11.6 x 4.5 in
Quad unit without connectors or bracket



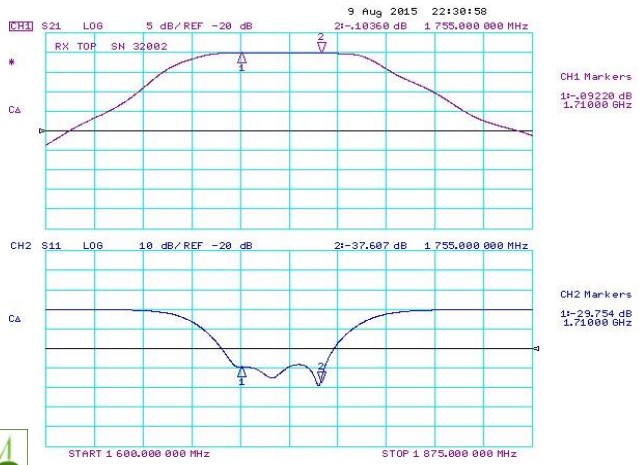


Frequency Response

TX Band



RX Band



ISO 9001:2015 Registered

RoHS Compliant

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

00.012.850 REV 8

444 E. State Parkway, Schaumburg, IL 60173 USA ■ Phone +1-630-283-3100 ■ Fax +1-630-283-3191 ■ www.iscointl.com