

Single Junction Wimax 3/4" Drop-in Isolator / Circulator - AV Series

Features

- Robust machined body for enhanced durability
- Small footprint
- Low Cost
- Customization available
- Fully RoHS compliant
- BeO free termination
- No Neodymium Magnets

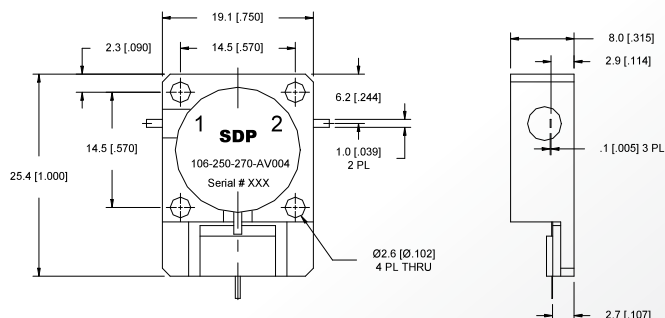
Figure A: Illustrated cw Isolator Photo



Description

The SDP 'AV' Wimax 3/4" series Isolator offers high performance at very competitive pricing. This rugged design uses a screwed in lid, and machined housing. Devices are fully tested to handle shock, vibration, thermal shock and moisture, making them suitable of base station and other infrastructure environments.

Figure B: Illustrated AV Series generic Isolator Drawing - ***



*** Alternate mounting hole diameter, counter bore and flange sizes available upon request.

Absolute Maximum Ratings

Parameter	Absolute Maximum
Peak Power (W) *	500 Watts
Forward Power (CW) *	100 Watts
Reverse Power (W) *	70 Watts
Standard Operating Temperature (°C) **	-10 to +80
Storage Temperature (°C)	-40 to +120

* Consult your SDP representative for higher power alternatives.

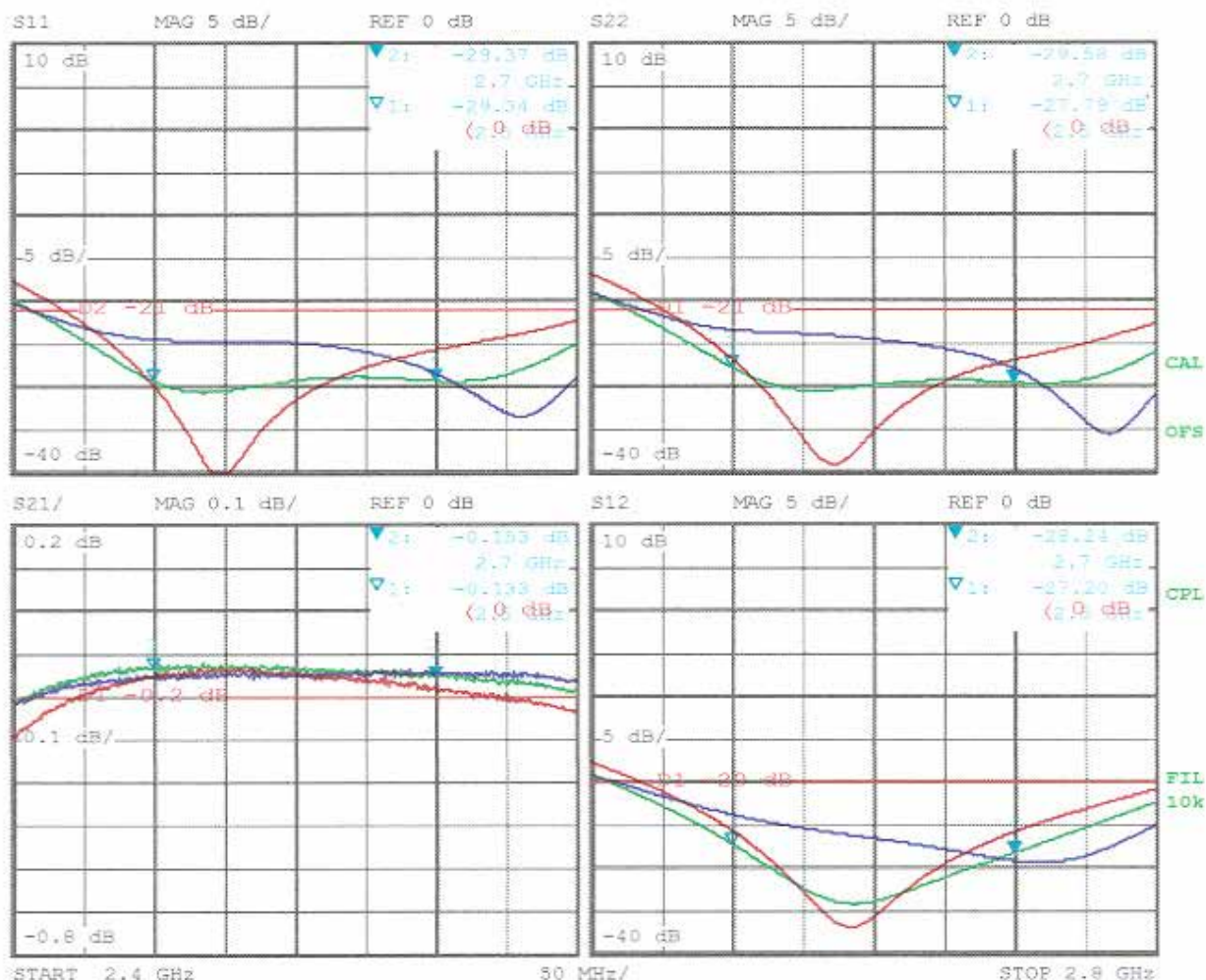
** Adjusted S-parameters at **WIDER TEMPERATURE RANGES** available upon request.

Basic Catalogue		Isolator	Attenuated Isolator (- 20 dB Version)	Circulator
Clockwise	2300-2500 MHz	101-230-250-AV004	106-230-250-AV004	101-230-250-AA
	2400-2500 MHz	101-240-250-AV004	106-240-250-AV004	101-240-250-AA
	2500-2700 MHz	101-250-270-AV004	106-250-270-AV004	101-250-270-AA
	3400-3600 MHz	101-340-360-AV004	106-340-360-AV004	101-340-360-AA
	3400-3700 MHz	101-340-370-AV004	106-340-370-AV004	101-340-370-AA
Counter Clockwise	2300-2500 MHz	111-230-250-AV004	116-230-250-AV004	111-230-250-AA
	2400-2500 MHz	111-240-250-AV004	116-240-250-AV004	111-240-250-AA
	2500-2700 MHz	111-250-270-AV004	116-250-270-AV004	111-250-270-AA
	3400-3600 MHz	111-340-360-AV004	116-340-360-AV004	111-340-360-AA
	3400-3700 MHz	111-340-370-AV004	116-340-370-AV004	111-340-370-AA

Designs offering alternate frequencies, wider frequency bands, or different attenuation levels available upon request.

Electrical Specifications	Typical	Min/Max
Insertion Loss	-0.2	-0.25
Isolation	-24	-23
Return loss/ VSWR	-24	-23
IMD (2x30W, 5 MHz separation)	-75	-70

Figure C: Typical Performance Graph B Series - Frequency range 2500 MHz to 2700 MHz



Comment 1: 3/4" ISOLATOR W/ATTENUATORE
 Comment 2: SDP-106-250-270-AV004 SERIAL NO: 6731-001
 Comment 3: GREEN (AMBIENT) RED (+85) BLUE (-20)
 Comment 4: NORTEL
 Date: 28.OCT.05 07:42:57

Engineered To Outperform!

To receive complete technical specification or related application notes please forward your request to: sales@sdptelecom.com

AV Series Wimax (15-05) Rev B
(not to be considered product revision control)