

VERSION: 1.5



PRODUCT DESCRIPTION:

The DF-A0056 is a 3-band, 5-channel DF switch. It is particularly suitable for band selection on our DF-A0029 and DF-A0037 direction finding antennas. The switch is designed to be mounted internally within the weatherproof cavity in the antennas.

The switch comprises five parallel channels, each with input power limiting, ESD protection, low noise amplifier and band switch.

An omni channel amplifier module amplifies the three omni channels found in the DF-A0037 and diplexes them to feed the 2-channel monitoring receiver.

PRODUCT FEATURES:

- DF switch
 - 3-band, 5-channel switch 0
 - External injection mode chain calibration 0
 - Internal calibration noise source 0
 - High-speed solid state switching \circ
- Omni amplifier
 - 3-channel omni amplifiers 0
 - Low noise amplifier on each input 0
 - Diplexer to combine Bands A and C 0
- Advanced input stages: limiters on each input on to allow operation in adverse EMC environments.
- Advanced output stages
 - Output amplifiers for long cables 0
 - Cable slope correction on amplifiers 0

APPLICATIONS:

Updated 2017-01-13

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DF band switching and omni amplification for our range of DF antennas, particularly, DF-A0029 and DF-A0037

5-Channel Band Switch with Omni Amplifiers

1 – 3600 MHz Product Code: DF-A0056

SPECIFICATIONS:

Frequency range1 - 3600 MHzInput VSWR< 2.5:1Input connectors15 SMA femaleOutput connectors5 SMA femaleNoise figure< 8 dBGain, < 100 MHz8 ± 2 dBGain, 3 GHz12 ± 2 dBGain, 3 GHz18 ± 2 dBParallel channels5Bands per channel3Output IP330 dBm (below 1 GHz)Output IP330 dBm (below 1 GHz)Maximum input level30 dBm CW, 45 dBm pulseElectrical: cal chainCal input connectorSMA femaleAmplitude imbalance< 2 dBPhase imbalance< 20°Gain-8 ± 6 dBMax input level20 dBmOutput level of internal noise3 x SMA femaleSourceElectrical: omni amplifiersInput connectors3 x SMA femaleInput connectors2 x SMA femaleOutput level of internal noisesourceSourceElectrical: omni amplifiersInput connectors2 x SMA femaleInput VSWR< 2.5:1DiplexerBands A and C combined. X-over 300 ± 50 MHzNoise figure< 8 dBGain, 1 GHz13 ± 2 dBGain, 3 GHz19 ± 2 dBGain, 1 GHz13 ± 2 dBGain, 3 GHz19 ± 2 dBOutput IP330 dBm CW, 45 dBm pulseElectrical:Power supply19 – 36 V DC, 1.5 AControlEIA-485 (RS-485)Maximum input level30	Electrical: DF chain	
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	Water ingress rating	



DISTRIBUTION BY: Cyntony Corporation 195 Follen Road exington, Massachusetts sales@cvntonv.com 781-430-0675



