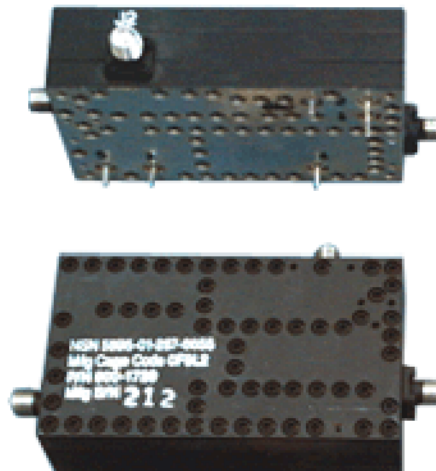


Mixer Diplexer

Model: NSN-5985-01-287-8855

Product Features

- Military Approved Design
- PIN Diode Modulator
- Rugged Construction
- Overload Protection



Description and Application

This product is a custom stripline modulator-duplexer designed for use in military test set conforming to MIL-T-28800, Type I, Class 2 requirements. This product operates over the TACAN frequency range from 960 MHz to 1215 MHz its rugged construction enables it to operate in ambient temperatures from -40 °C to 75 °C and altitudes up to 40,000 ft. The modulator-duplexer incorporates a PIN diode modulator for the purpose of amplitude-modulating a CW signal applied to the appropriate input port. The resultant output signal is a series of RF pulses conforming to specified requirements. Protection against input signals in excess of the normal operating conditions is provided through the use of a limiter-diode circuit in conjunction with integrated bandpass filters.

Product Specifications

Port 1 Parameters

Function	Input CW
Frequency	966 - 1176 MHz
Level	+15 dBm
VSWR	1.5:1 - 0 control input 2.0:1 - 10 mA control input

Port 2 Parameters

Function	Input/Output (Pulse)
Frequency	1025 - 1150 MHz (Input) 966 - 1176 MHz (Output)
Level	+3 to +25 dBm (Input) -30 dBm (Output)
VSWR	1.67:1

Port 3 Parameters

Function	Input/Output (Pulse)
Frequency	1025 - 1150 MHz (Input) 966 - 1176 MHz (Output)
Level	+39 to +54.5 dBm (Input) -70 dBm (Output)
VSWR	1.5:1

(specifications are subject to change without notice)

Ordering Information

NSN-5985-01-287-8855