

# Frequency Multiplier (x2 to x48)

Model BXMF1016 (150 - 175 MHz)



## Features

- Fully Customizable Housing
- Fast 90 nsec Switching Speed
- High Output +10 dBm Drive Level
- 2 Programmable Outputs
- Null Output Mode
- x2 through x48 Multiplication

## Description

This Multiplier provides the system designer with a compact, fast-switching building block for LO multiplication applications. An internal solid-state multiplier provides frequency multiplication by your choice of a factor of 2, 4, 8, or up to 48, all from a single input frequency.

The multiplier is designed for airborne applications and has field-replaceable RF connectors. The entire assembly is designed to be slid into a channel for systems installation without the need to solder wires or screw on connectors.

This design incorporates single-stage active doublers, amplifiers, SRD multipliers, power splitters, bandpass filtering, voltage conditioning, and BIT circuits and provides excellent phase noise performance.

## Applications

- Synthesizer Building Block
- SIGINT
- ELINT
- EW

## Typical Specifications

Input Frequency	150 to 175 MHz
Input Level	+10 dBm
Output Frequency	300 MHz to 8400 MHz
Output Level	+10 dBm
Bandwidth	2%
Switching Speed	90 nsec
Harmonics	-60 dBc
DC Power	+28 V @ 275 mA +15 V @ 75 mA
Temp Range	0°C to +75°C

*All specifications above measured at 25 °C*

## Dimensions and Connections

12" L x 13" W x 1" H

Revision 7/5/2012