



400-520 MHz Low PIM UHF Duplexer (Model: AMA-4596)

Features

- ❖ High Isolation
- ❖ Low PIM
- ❖ Low VSWR

Description

The AMA-4596 series are low PIM cavity duplexers, designed for UHF digital radio systems working from 400-520MHz. The typical bandwidth of the pass band is 4MHz with up to 90dB isolation to TX band.

A High performance LNA can be used to improve the system sensitivity (P/N: AMA-3312-15).

Please specify RX & TX frequency band and connector requirements when ordering (eg. AMA-4596-480/490-NF).

Specifications

Typical Specifications (AMA-4596-480/490-NF)

PORT:	RX	TX
Frequency	480-485 MHz	490-495 MHz
VSWR	1.25	1.25
Insertion Loss	≤ 2.0 dB (1.5 typ)	≤ 2.0 dB (1.3 typ)
Rejection	≥ 90 @ 490-495 MHz	≥ 60 @ 480-485 MHz
PIM	≤ -140 dBc @ 43 dBm x2	≤ -140 dBc @ 43 dBm x2
Power Handling	300W maximum (500W peak)	
Connectors	N Female (SMA-F or 7/16 DIN also available)	
Impedance	50 Ohms	
Temperature Range	-20°C to +65°C	
Appearance	Black	

