

175-200GHz Sub-Harmonics Mixer



Description:

AT-SHM-175200 is sub-harmonics mixer covering 175-200GHz. RF frequency range 175-200GHz with WR-05 waveguide, LO port is 87.5-100GHz with WR-10, and IF port is DC-12GHz with SMA Female.

The mixer can be used as both up and down convertor. AT-AM8-86106-10 is suggested to be used for LO driver.

For more information, please visit www.atmicrowave.com

Feature

- ✓ RF: 175-200GHz
- ✓ LO: 87.5-100GHz
- ✓ IF: DC-12GHz
- ✓ Low LO power requirement

Application

- ✓ High Speed Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Electronical Specifications:

Parameter	Min	Typical	Max
RF Frequency Range		175-200GHz	
LO Frequency Range		87.5-200GHz	
LO Driver	+8dBm	+10dBm	+13dBm
IF Range		DC-12GHz	
RF Input P1		0dBm	
Conversion Loss/Rx TEST		-18dB	-22dB
Spec Temp		25C	





AT-SHM-175200

175-200GHz Band Sub-harmonics Mixer

Mechanical Information

Item	Description
RF Port	WR-05
LO Port	WR-10
IF Port	SMA Female
Case Material	Copper
Finish	Gold Plated
Weight	30g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
IF Port Power	+5dBm
RF Port Power	+5dBm
LO Port Power	+15dBm
Operating Temperature	0 to +50C
Storage Temperature	-45 to +85C

Notes:

1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

