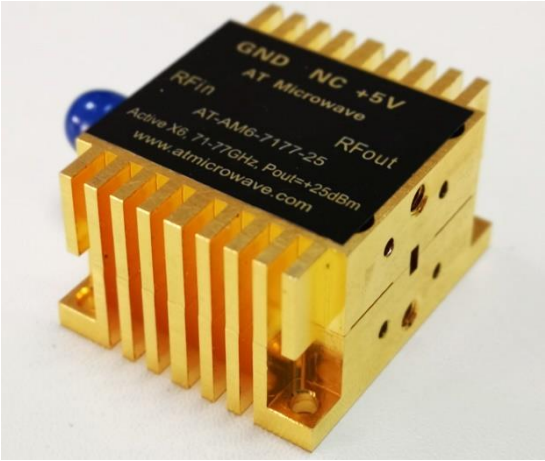
AT-AM6-7177-25

Active Multiplier x6, 71-77GHz Pout=+25dBm

High Power X6 E1 Band Active Multiplier



Product Overview

AT-AM6-7177-25 is a E band, active x6 frequency multiplier. The multiplier has an input frequency of 11.83 to 12.83GHz with a typical output +25dBm from 71-77GHz.

The integrated input and output buffers deliver high output power at a low drive level. The multiplier also has a typical harmonic suppression of -20dBc. The input port is SMA female, and the output is a WR-12 waveguide.
Other port configurations are available under different requirement.
More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 71-77GHz
- ✓ Pout: +25dBm typical
- ✓ Input: 11.83-12.83GHz, +5dBm
- ✓ Single Supply: +5V, LDO inside

Application

- ✓ E band Communication
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Key Features

Parameter	Min	Typical	Max
Input Frequency	11.83GHz		12.83GHz
Input Power		+5dBm	+10dBm
Output Frequency	71GHz		77GHz
Output Power	+24dBm	+25dBm	
Harmonica Suppression		-20dBc	
Drain Voltage		+5V	+6V
Current Quiescent/A		0.9A	
Current at +25dBm Pout		1.1A	1.3A
Output Connector		WR-12	
Dimension		35X30X20 mm	

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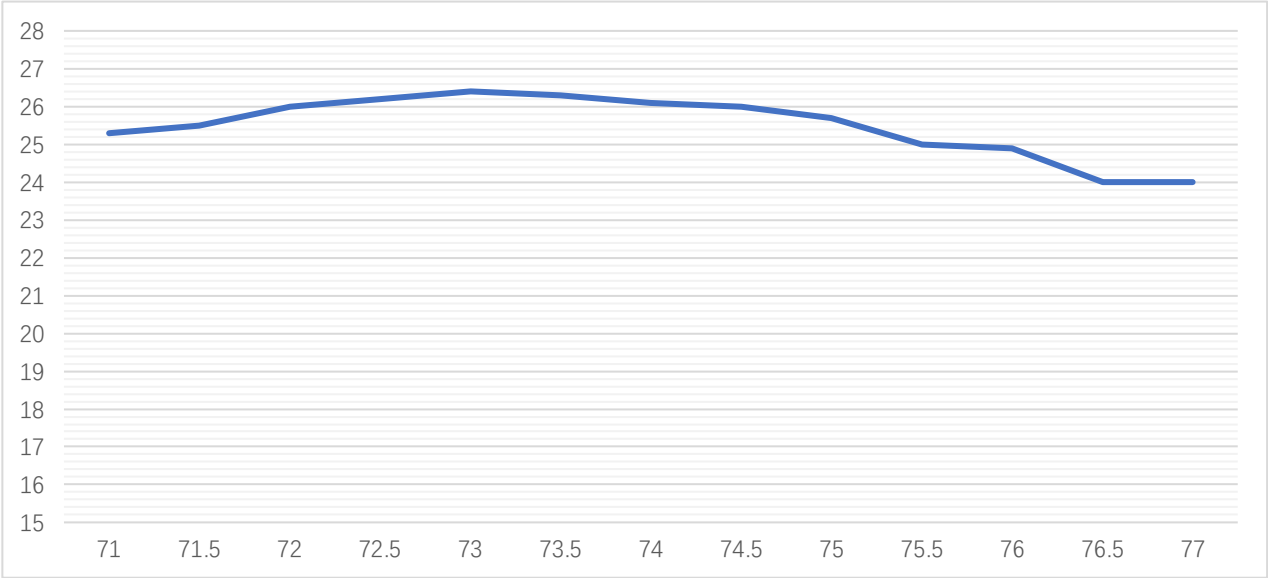
Absolute Maximum Ratings Table

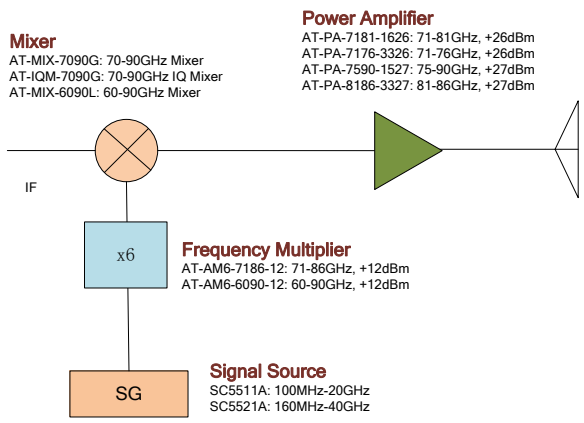
Parameter	Value
Drain Supply	+6V
RF Input Power	+10dBm
Operating Temperature	0 to 50 C
Storage Temperature	-65 to +150C

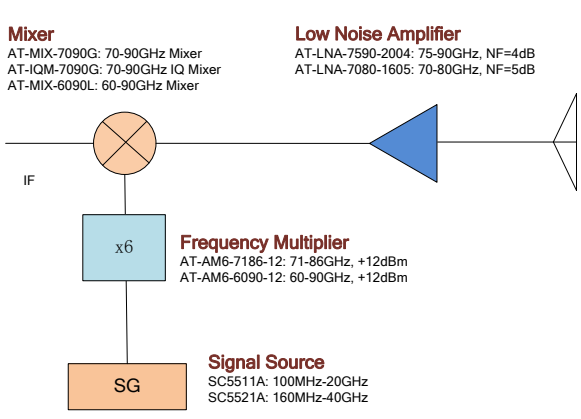
Test Data(25C)

Vd=+5V, Pin=+7dBm, Quiescent current=0.8A, Id=1.2A at +25dBm Pout.



E Band Solution:





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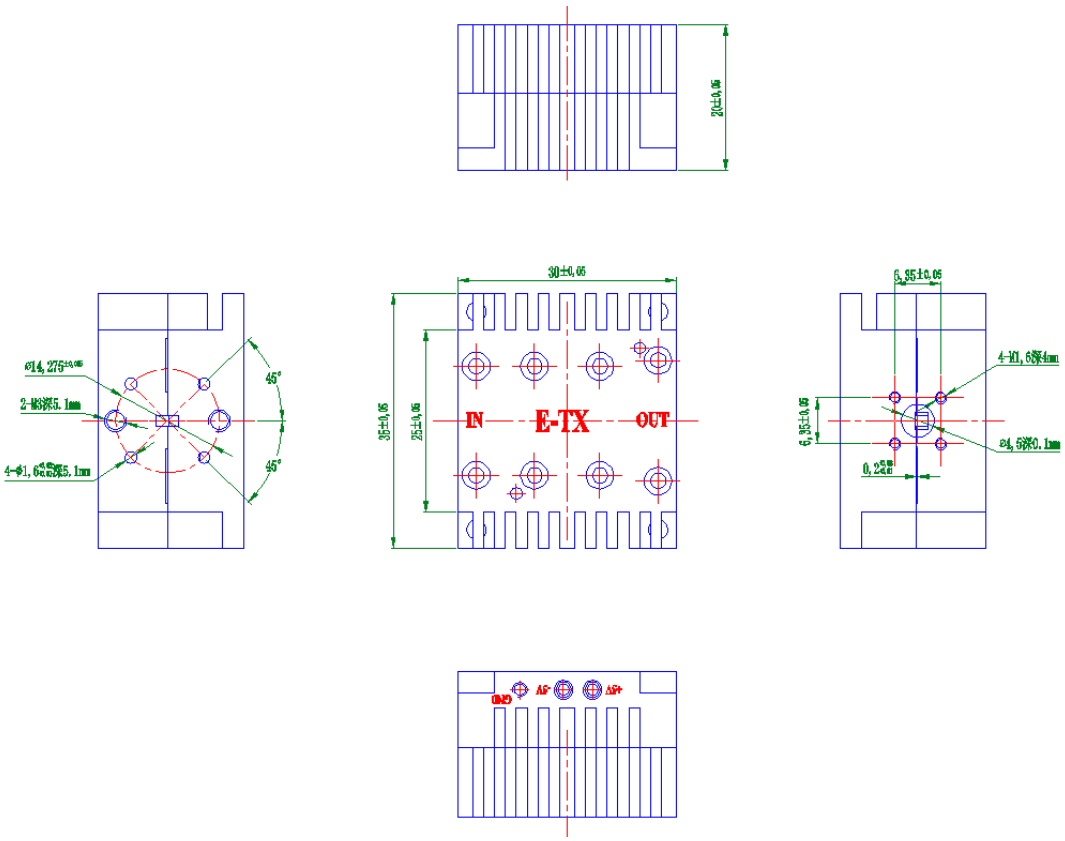
Dimension: (35x30x20mm)



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.

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