

Impedance-matched Josephson Parametric Amplifier

SMA,6.2-6.6GHz,Gain:17dB,Noise Temperature:400mK

IMPA is a low-temperature superconducting Josephson parametric amplifier with quantum limit noise performance. It uses standard SMA packaging. It can be widely applied in the fields of non-destructive readout amplification of superconducting quantum computing signals, microwave (single) photon detection and amplification, and detection of extremely weak microwave signals.

Features:

- Bandwidth:≥400MHz
- Noise Temperature:400mK



Applications:

- Dilution refrigerators/Cryogenic devices
- Quantum Computing

Electrical Characteristics:

参数Parameter	Min.	Typ.	Max.	单位Units
Frequency range	6.2		6.6	GHz
Gain	17			dB
Bandwidth	400			MHz
Noise Temperature		400		mK
Saturation Power		-115		dBm

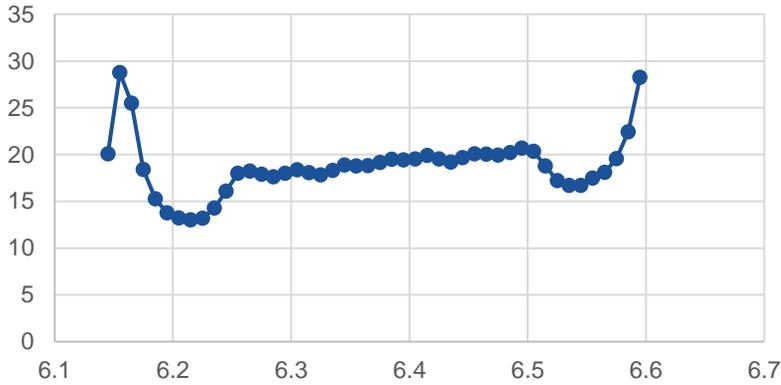
Talent can provide Multi-Channel RF Synthesizers as RF Pump Source

Environmental And Physical Characteristics:

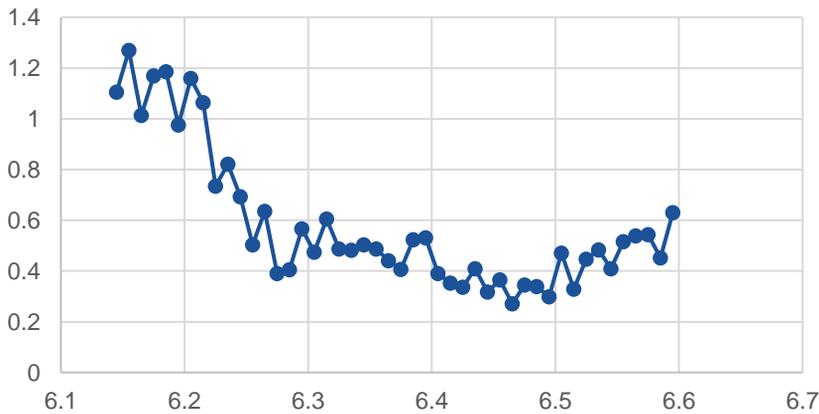
Description	Parameter	Units
Operating Temperature	≤200	mK
Storage Environment	High vacuum	
Connector	SMA Female	

Measured data :

Gain



Noise Temperature



Ordering Information:

Base Number	Description	Revision
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TUR-IMPA6.2G6.5G17	Impedance-matched Josephson Parametric Amplifier SMA,6.2-6.6GHz,Gain:17dB,Noise	Rev.1.1
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