Suzhou Talent Microwave,Inc
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Cryogenic Baise Tee

100KHz-18GHz /50V DC/SMA

Model: TLBT-100K18G-50-SS-Cryo

TLBT-100K18G-18-SS-Cryo is a cryogenic baise tee that operates from 100 KHz to 18 GHz. The cryogenic baise tee offers 2.0 dB insertion loss and -15 dB typical return loss. The cryogenic RF choke can handle up to +50 VDC bias voltage and 500 mA current. The all ports are equipped with SMA female connectors.

Features:

- Frequency range:100KHz-18GHz
- Low Insertion Loss
- High Voltage
- High Current Capacity

Applications:

- Test Lab
- Sub-assemblies
- System Integrations

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	100KHz		18GHz	
Insertion Loss		2		dB
Ruturn Loss		-15		dB
Isolation	35			dB
DC Voltage			50	V DC
DC Resistance		4		Ω
DC Current			500	mA
RF Power			1	W

Mechanical Specifications:

Parameter	Value	Units
输Input /Output Connector	SMA Female/SMA Female	
DC Connector	SMA Female	
Case Material	OFC	
Finish	Bue Paint	
Size	30.7*16.2*12.7	mm

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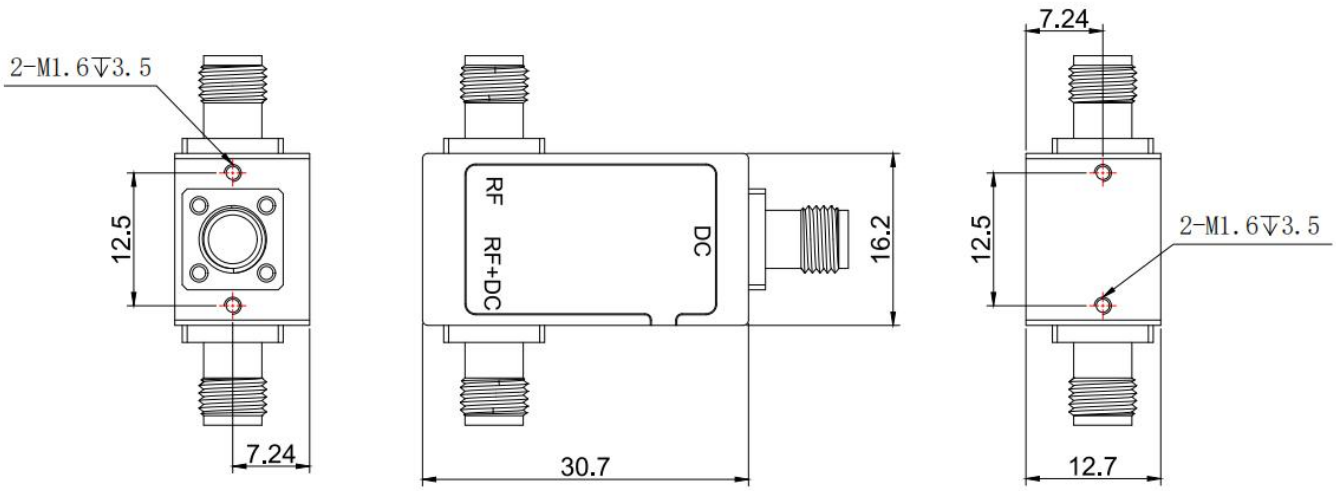
Absolute Maximum Ratings:

Parameter	Value
供Supply Bias Voltage	+50 V
RF Input Power	+30 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

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Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	10mK		+85℃	
Non-operating Temperature	-55		+125	℃
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Base Number	Description	Revision
TLBT-100K18G-50-SS-Cryo	Cryogenic Baise Tee SMA,100KHz-18 GHz,+50V	Rev.1.2

Notes:
1. All data taken @ +23° C unless otherwise specified.
2. Dimensionsandspecificationsmay be changed withoutprior notice.