Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Broadband Bias Tee

160KHz-110GHz/35V DC/1.0mm

Model: TLBT-160K110G-35-1S

TLBT-160K110G-35-1S is a bias tee that operates from 160 KHz to 110 GHz. The bias tee offers 4.5 dB insertion loss and -10 dB typical return loss. The bias tee can handle up to +35 VDC bias voltage and 500 mA current. The RF ports are equipped with 1.0 mm female connectors and DC port is equipped with SMA female connector.

Features:

- Frequency range:160KHz-110GHz
- Low Insertion Loss
- High Voltage
- High Current Capacity

Applications:

- Test Lab
- Sub-assemblies
- System Integrations

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	160KHz		110GHz	
Insertion Loss		4	4.5	dB
Return Loss		-10		dB
Isolation		30		dB
DC Voltage			35	V DC
DC Current			500	mA
Power Handing			1	W

Mechanical Specifications:

Parameter	Value	Units
RF Connector	1.0mm Female	
COM Connector	1.0mm Female	
DC Connector	SMA Female	
Case Material	Aluminum	
Finish	Bue Paint	
Size	14.9*36*11.7	mm
Weight	45	g

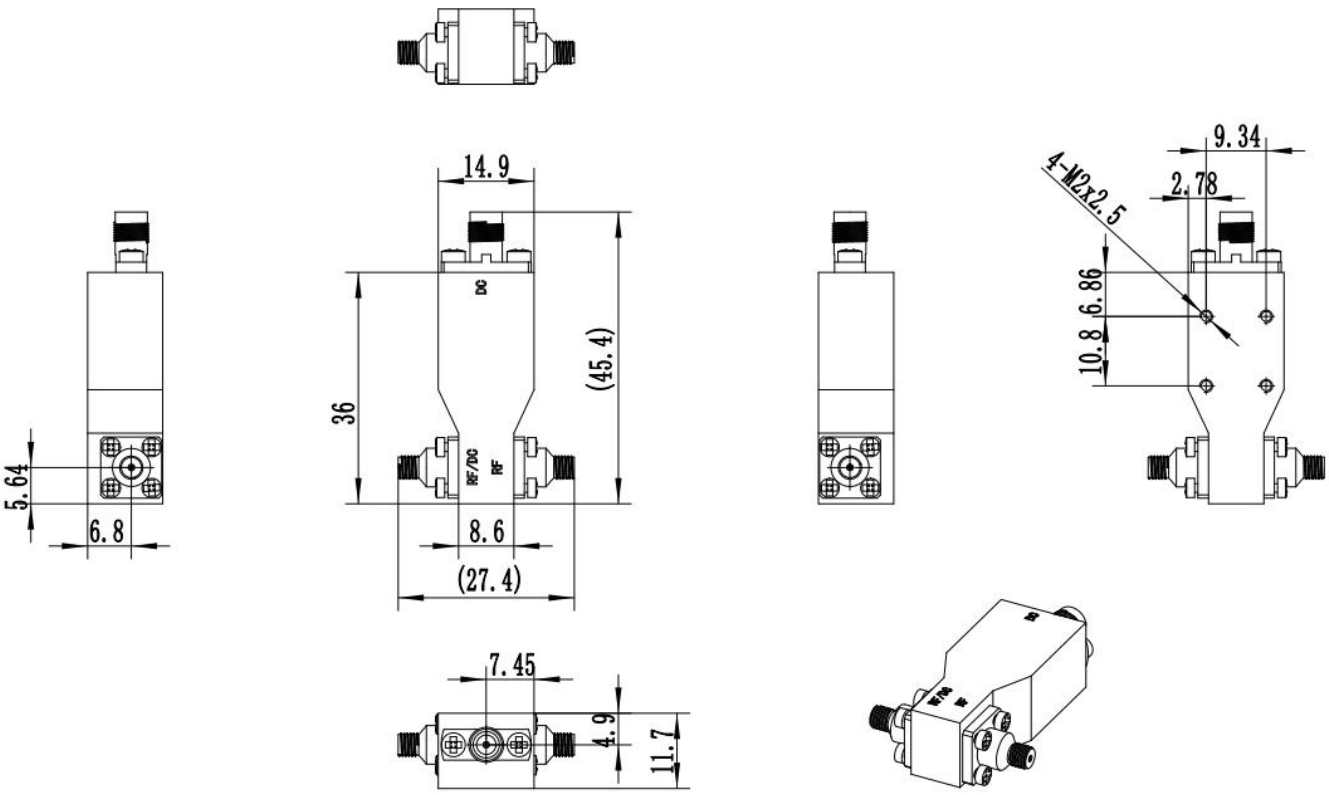
Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+35 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.

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Environmental Conditions:

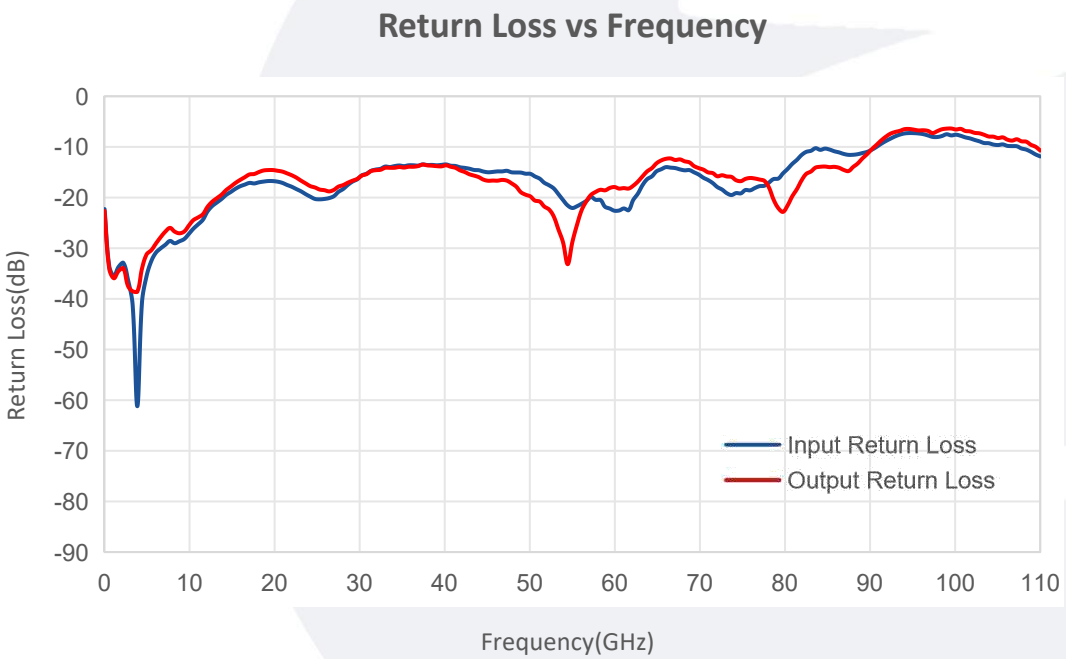
Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+70	℃
Non-operating Temperature	-55		+85	℃
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Base Number	Description	Revision
TLBT-160K110G-35-1S	Broadband Bias Tee 1.0mm,160KHz-110GHz,+35V	Rev.1.1

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

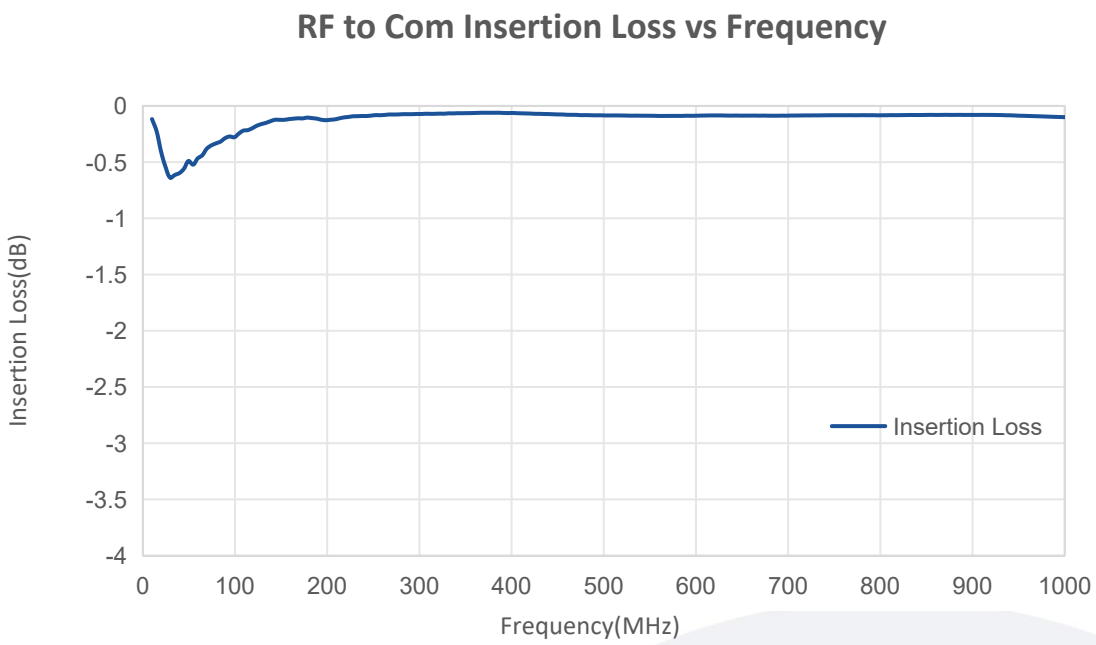
Typical Performance Data:

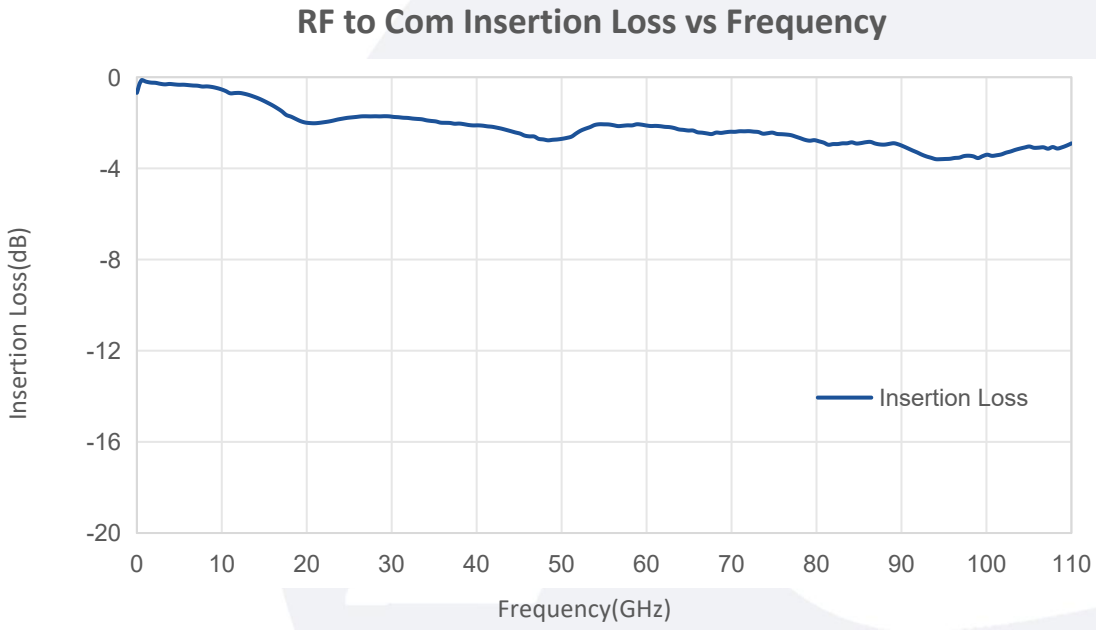


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Typical Performance Data:

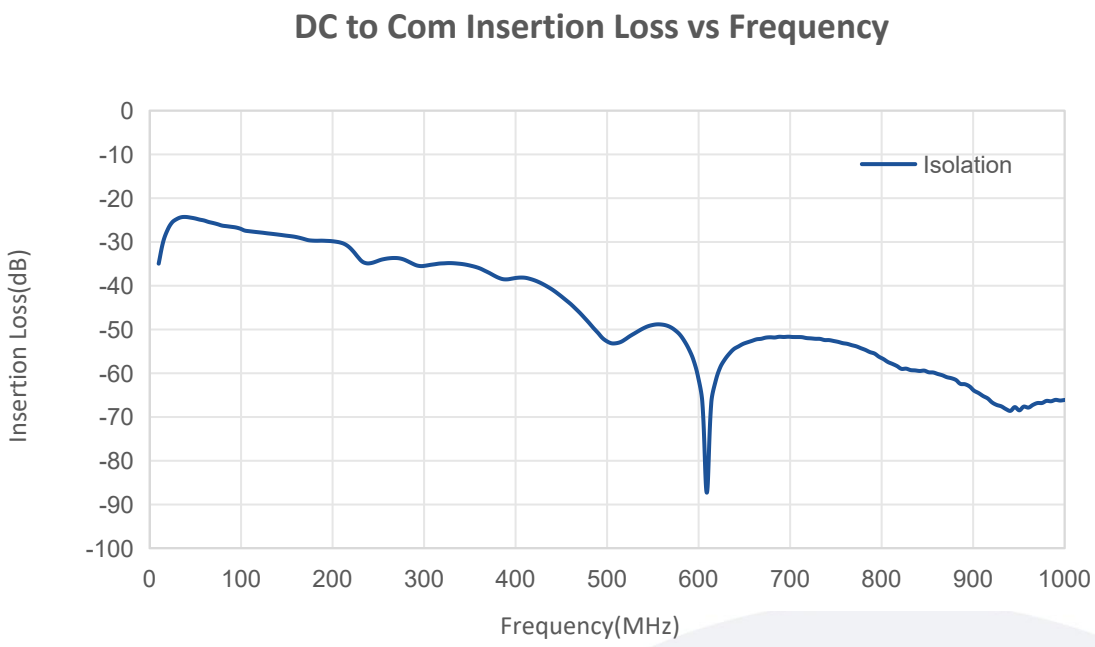


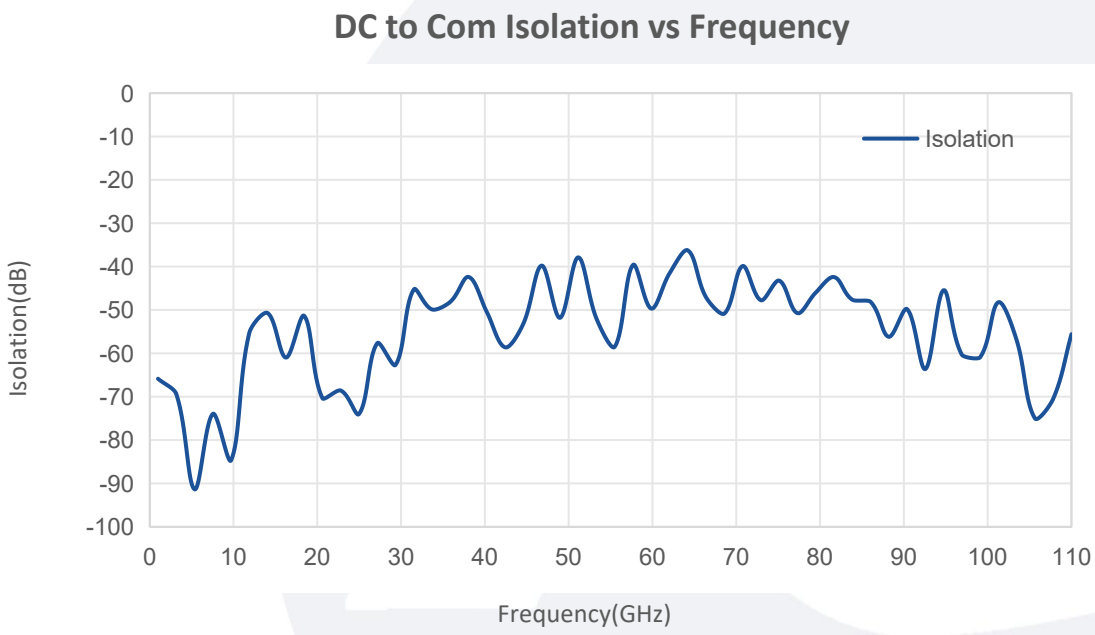


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Typical Performance Data:

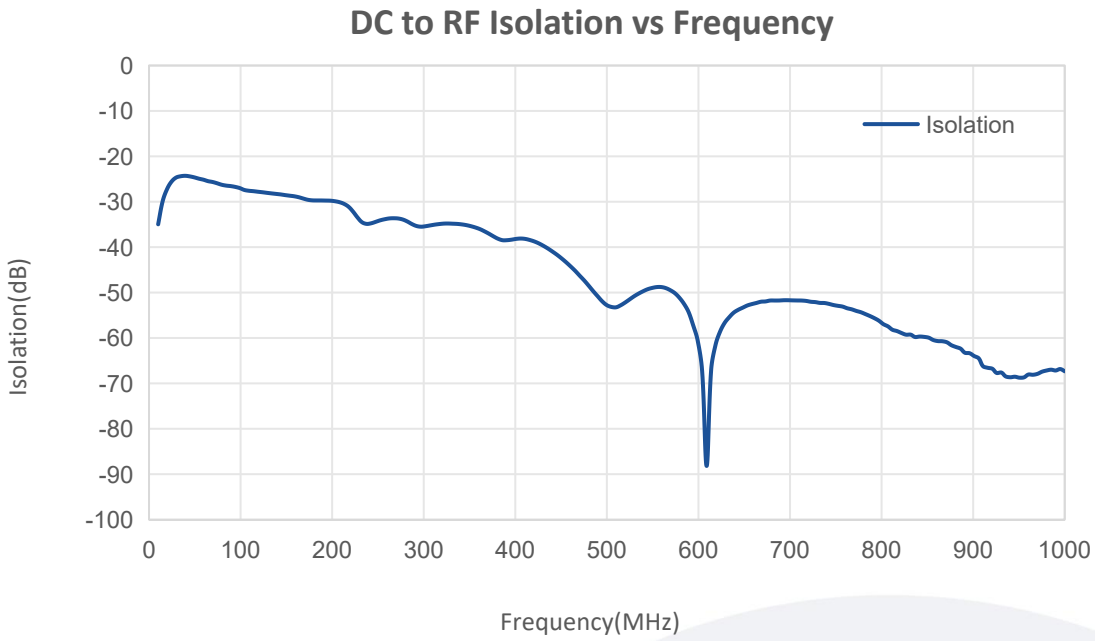


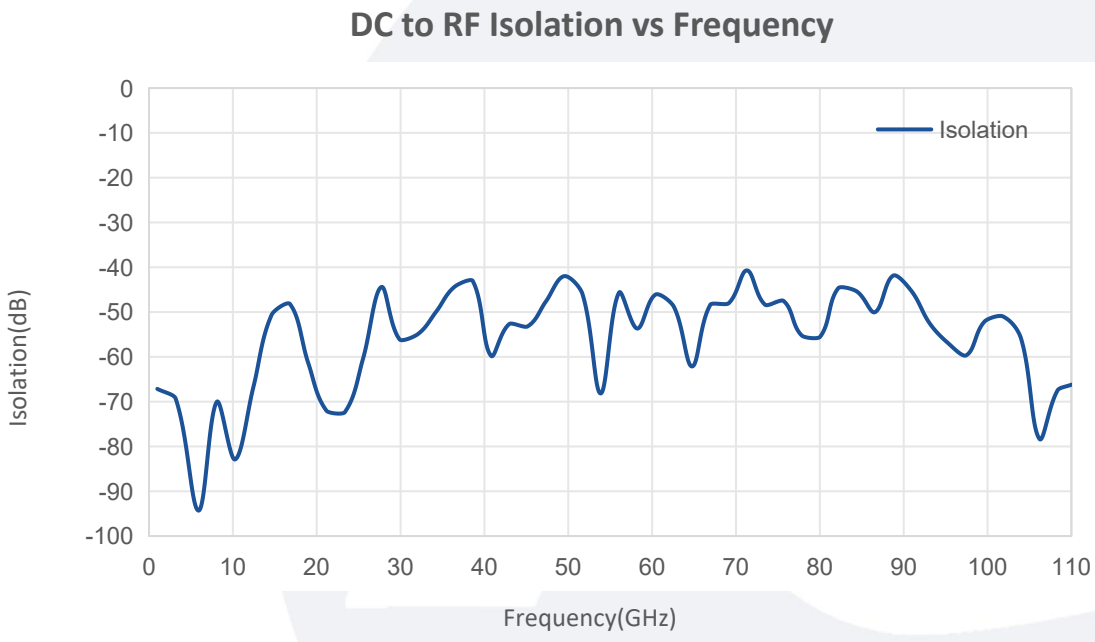


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Typical Performance Data:

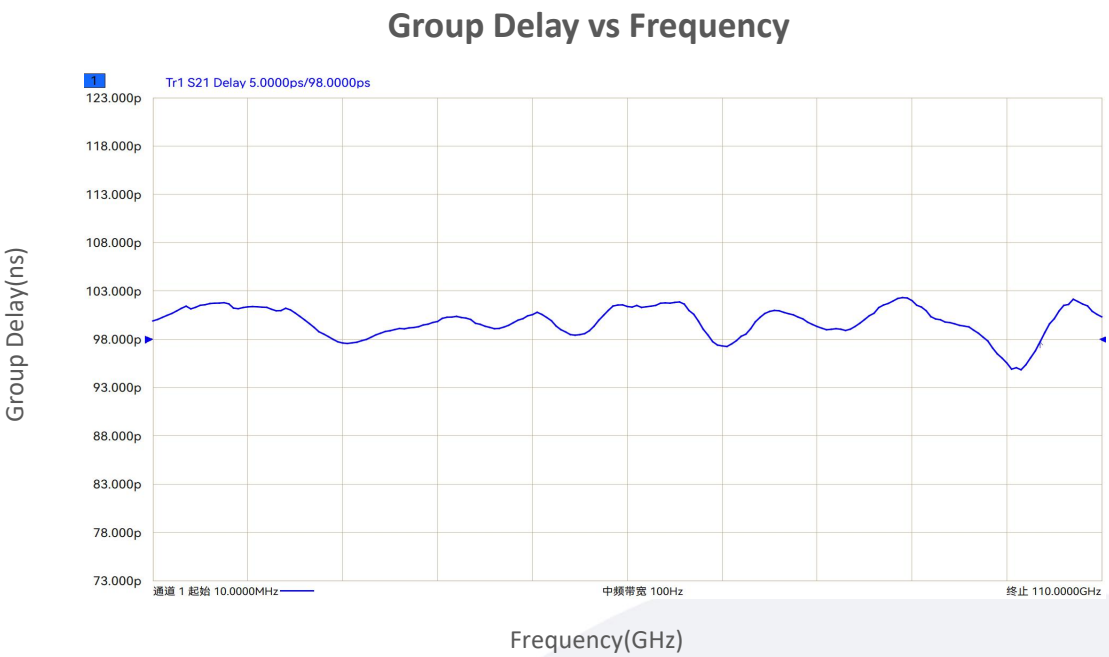




Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Typical Performance Data:



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.