泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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W-band Spectrum Frequency Extension Systems

75-110GHz/WR-10 Model: TLSM-075110-08-10

TLSM-075110-08-10 spectrum frequency extension systems are a dedicated Test & Measurement solution for extending the range of your signal source to 75-110GHz.

Features:

- Frequency range: 75-110 GHz
- Conversion Loss SSB: 12dB Typ
- Low conversion loss

Applications:

- Frequency Extension
- Antenna measurements
- Material characterisation

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	75		110	GHz
IF Output Frequency	DC		5	GHz
LO Input Frequency	9.37		13.75	GHz
LO Input Power	13	15	20	dBm
Multiplication Factor		8		
RF Input Power		-10	0	dBm
Mixer Conversion Loss SSB		12	14	dB

Mechanical Specifications:

Parameter	Value	Units
RF Input Ports	WR-10/UG-387/UM	
LO/IF Ports	SMA Female	
LO Input Ports	SMA Female	
IF Output Ports	SMA Female	
DHP Ports	SMA Female	
DLP Ports	SMA Female	
Power Supply Pin	FGG 0B 4 Core	
Size	155.2*75.2*52	mm

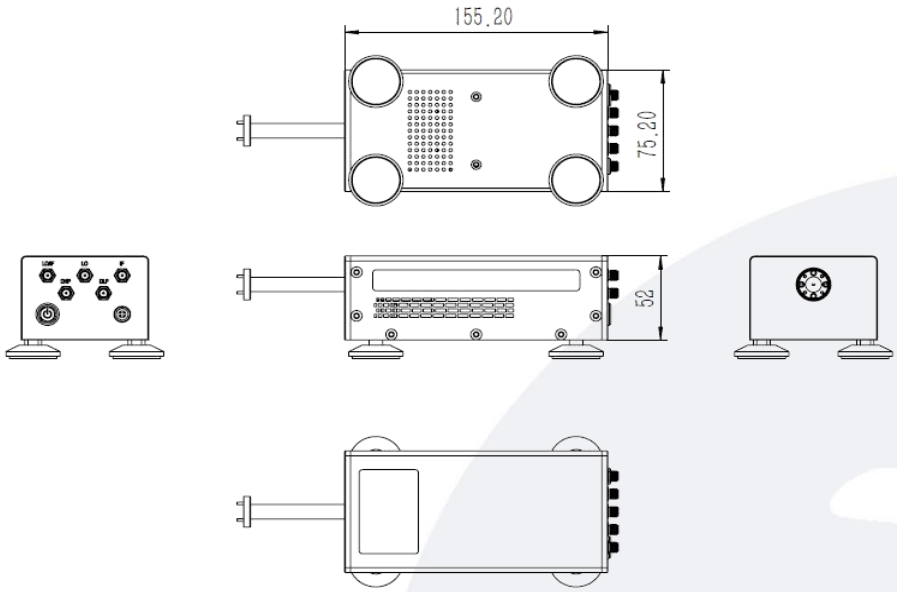
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Absolute Maximum Ratings :

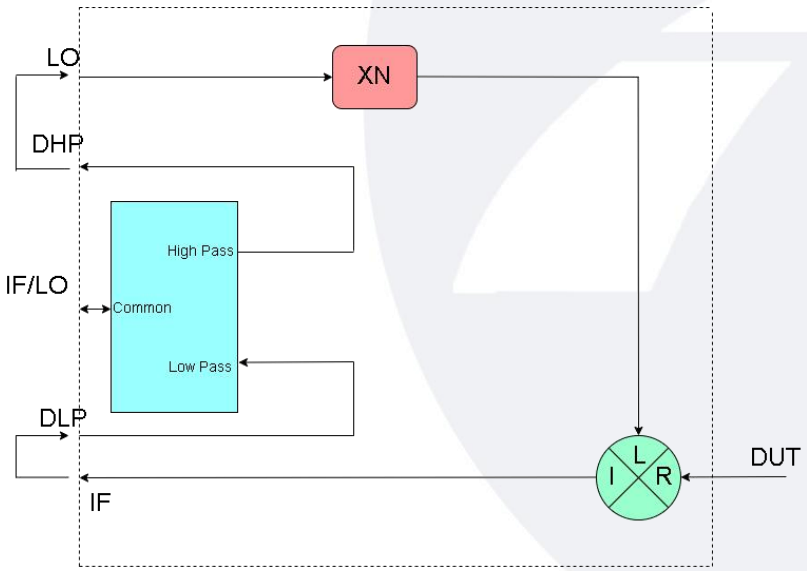
Parameter	Value
Supply Bias Voltage	+240 V AC
RF Input Power	0 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



Block Diagrams:



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Envrionmental And Physical Characteristics:

Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	℃
Non-operating Temperature	-45		+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			

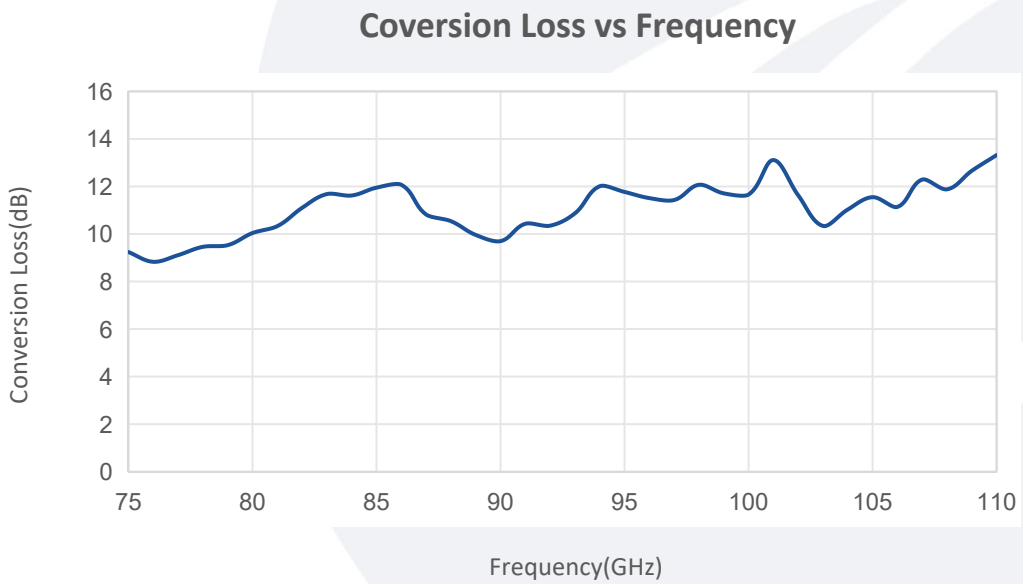
Ordering Information:

Part Number	Description	Revision
TLSM-075110-08-10	W-Band Spectrum Frequency Extension Systems, X8,75-110GHz, Conversion Loss:10dB typ	Rev.1.0

Components Included:

Part Number	Description	Quantity
TLACTDC-22012	AC-to-DC Power Adapter	1 PCS

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.