



DUAL BALANCED MIXER, DC-14GHz

MODEL: LF-DBM-1044-14-LS

FEATURES:

- RF/LO Coverage: 10-44GHz
- IF Operation: DC-14GHz
- High LO to RF isolation

ELECTRICAL SPECIFICATIONS:

PARAMETER	MIN	Typ	Max	Units
RF Frequency	10		44	GHz
LO Frequency	10		44	GHz
IF Frequency	DC		14	GHz
Input P1dB		5		dBm
IF Input Power		-10		dBm
RF to IF Isolation		35		dB
RF to LO Isolation		45		dB
LO to IF Isolation		45		dB
Conversion Loss@IF=100MHz		10		dB
LO Input Power	7	10	15	dBm

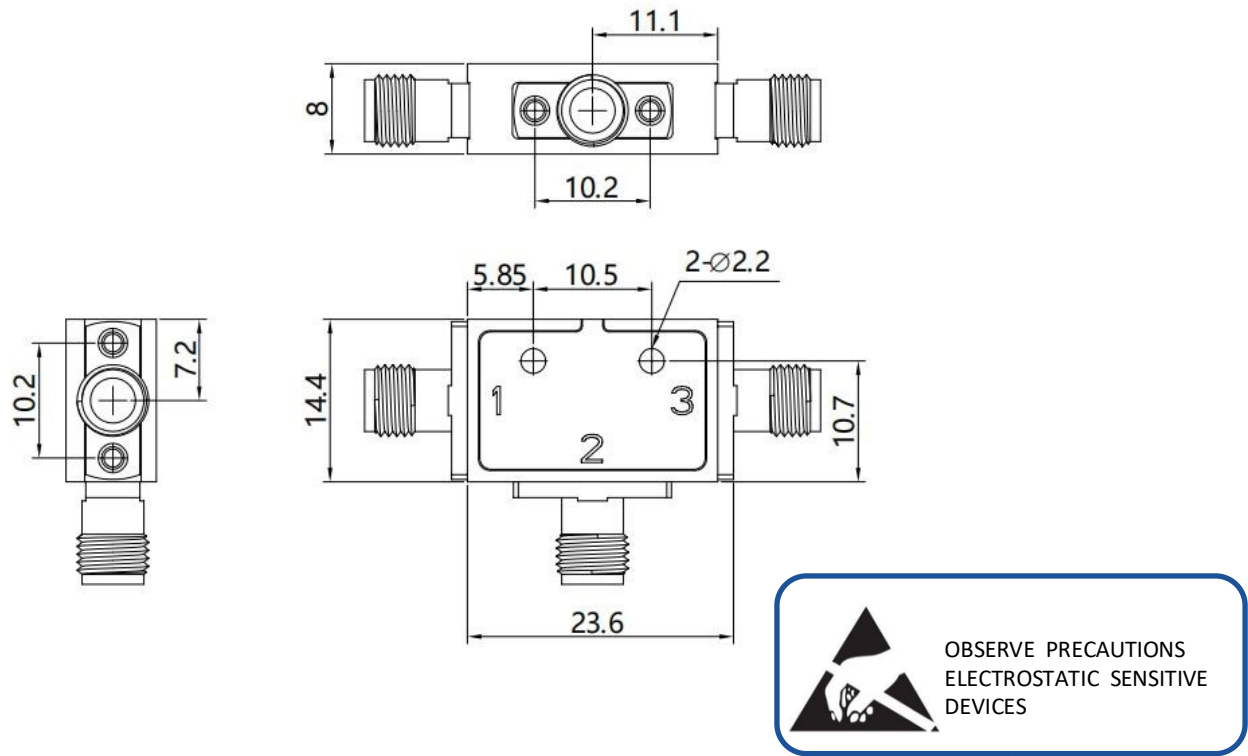
MECHANICAL SPECIFICATIONS:

Parameter	Value	Units
Connector 1	2.4mm Female	
Connector 3	2.4mm Female	
Connector 2	SMA Female	
Size	22.2*14.4*8	mm

ABSOLUTE MAXIMUM RATINGS:

Parameter	Value
LO Input Power	+15 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

OUTLINE DRAWING: Unit: mm



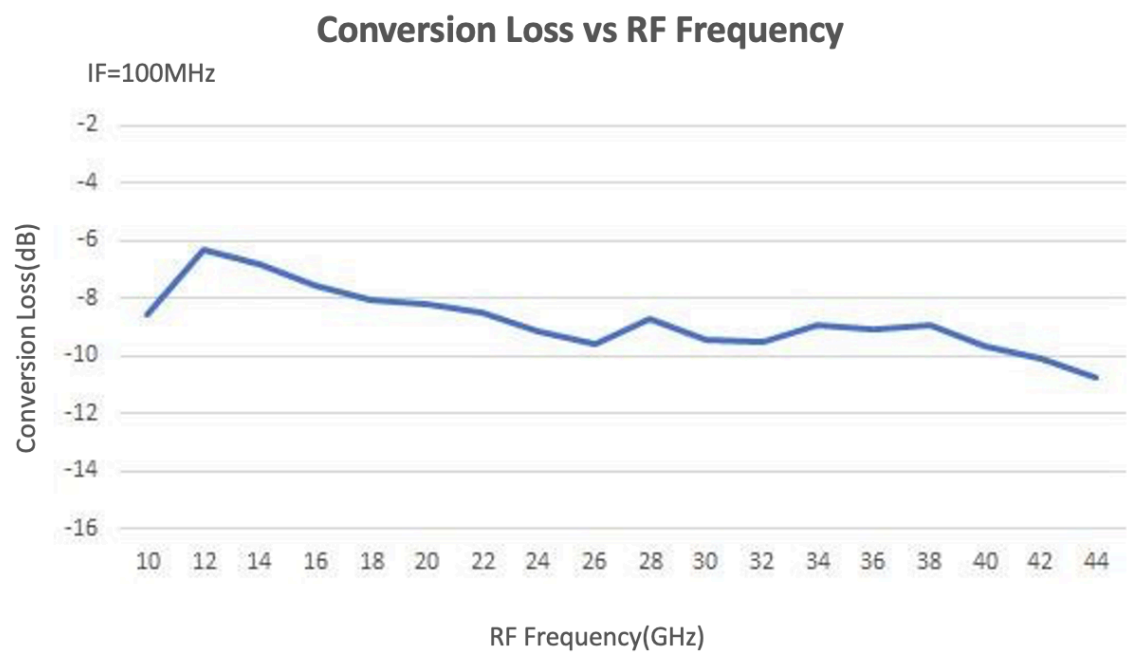
PORT FUNCTIONS:

APPLICATION 1		APPLICATION 2	
PORT	Function	PORT	Function
port1	LO	port1	RF
port2	IF	port2	IF
port3	RF	port3	LO

ENVIRONMENTAL CONDITIONS:

Parameter	Min	Typ	Max	Units
Operating Temperature	0		+50	°C
Non-operating Temperature	-45		+85	°C
Relative humidity		95		%
Altitude	50,000			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			

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.