970UF/383

U-Band Balanced Mixer

Physical Properties

- Material: 6061 T6 Aluminum
- Dimensions: 1.5 x 1.5 x 1.3 Inches
- Flange: UG-383/U
- Finish: Gold Plating
- RF Port: WR-19 Waveguide
- LO Port: WR-19 Waveguide
- IF Port: SMA-F



SN: L62Z17

Picture shown above is indicative only.[3]

Electrical Specifications @ 25°C		Test Data			
Parameters	**Specifications**	**Min.**	**Typ.**	**Max.**	**Unit**
RF Frequency	40 to 60	40	-	60	GHz
LO Frequency	40 to 60	40	-	60	GHz
IF Frequency	DC to 12	DC	-	12	GHz
LO Drive Level	+13 typ.	+10	+13	+15	dBm
Conversion Loss	10 typ.	-	10	-	dB
LO to RF Isolation	28 typ.	-	28	-	dB

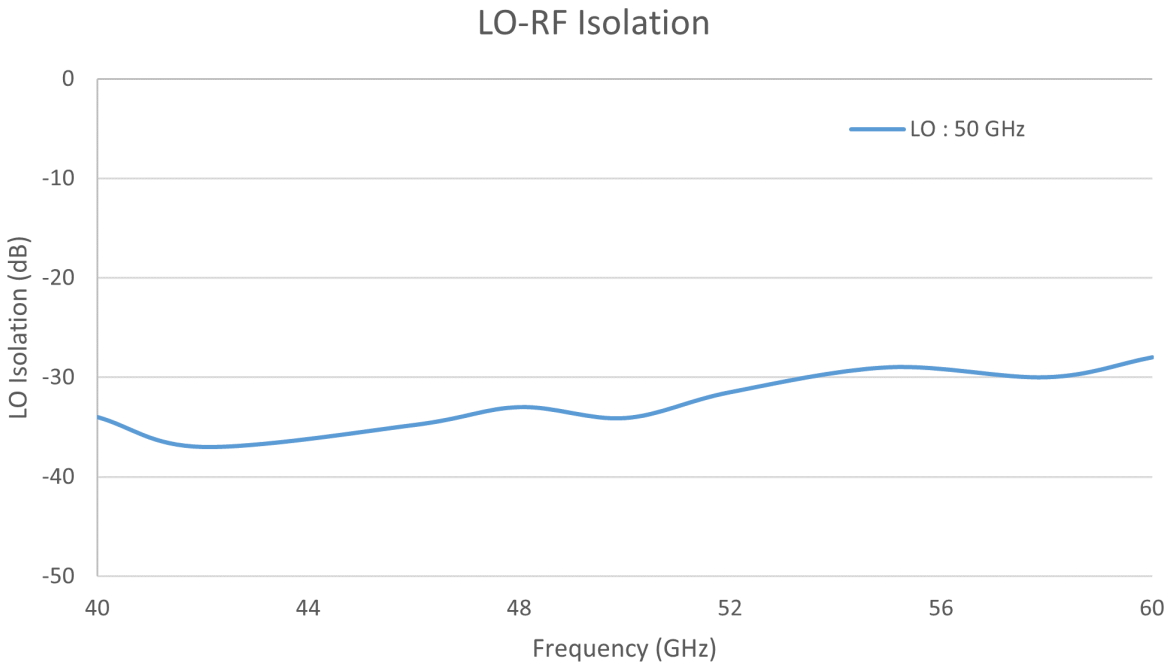
1. Do not put any foreign objects inside the waveguide. Warranty Void.
2. Open and short-circuit loads are not recommended at the mixer output. Ensure proper 50 Ohm load before applying RF.
3. Picture shown above is Indicative only, SN or PN may differ from actual unit. refer to outline on page 2 for more details

Absolute Maximum Ratings	
Parameter	**Ratings**
Operating Temperature	-10°C to +45°C
Storage Temperature	-40°C to +100°C
(LO+RF) Input Power (CW)	+17 dBm

*Permanent damage may occur if any of these are exceeded.

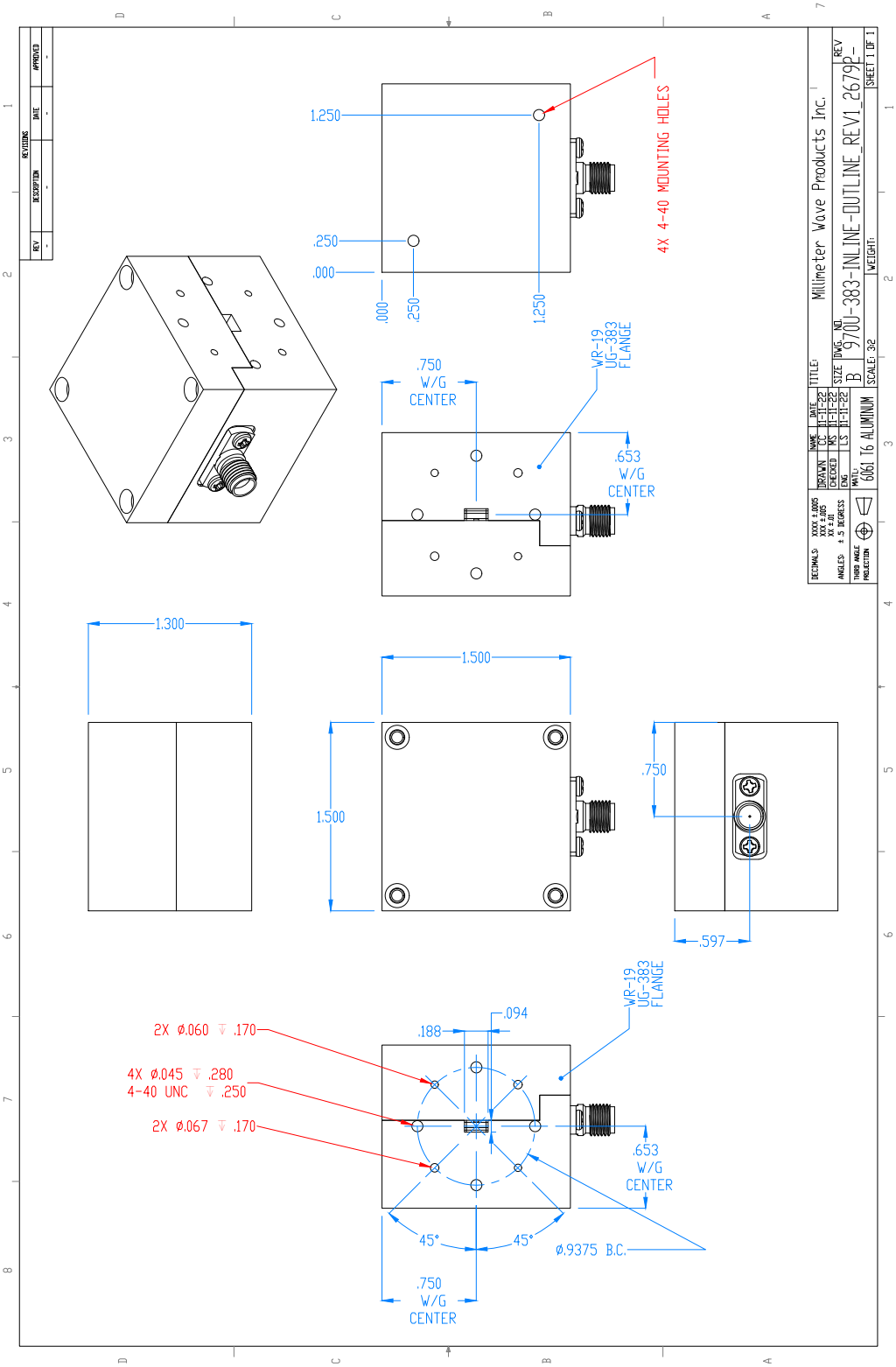
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LO Frequency (GHz)	IF Input Frequency (GHz)	RF Output Frequency (GHz)	IF to RF Conversion Loss (dB)
40	1	41	8.6
40	2	42	9.6
40	3	43	9.4
40	4	44	9.3
40	5	45	10.5
40	6	46	10.4
40	7	47	10.2
40	8	48	10.2
40	9	49	9.9
40	10	50	11
40	11	51	10.7
40	12	52	12.1
40	13	53	9.9
40	14	54	10.6
40	15	55	10.7
40	16	56	11.5
40	17	57	14.1
40	18	58	14
40	19	59	16.2
40	20	60	16



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Outline Drawing



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