970BF/383

B-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-22 Waveguide
- LO Port: WR-22 Waveguide
- IF Port: SMA-F



SN: A62Z53

Picture shown above is indicative only.[3]

Electrical Specifications @ 25°C		Test Data			
Parameters	**Specifications**	**Min.**	**Typ.**	**Max.**	**Unit**
RF Frequency	33 to 50	33	-	50	GHz
LO Frequency	33 to 50	33	-	50	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

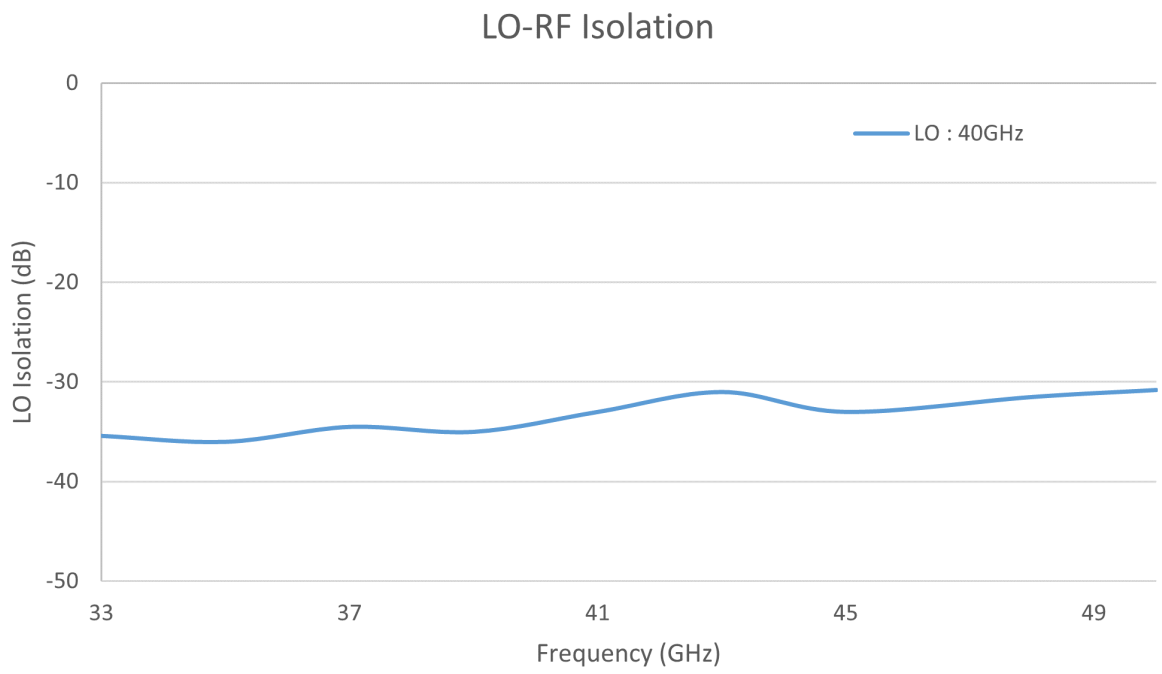
1. Do not put any foreign objects inside the waveguide. Warranty Void.
2. Open and short-circuit loads are not recommended at the mixer output. Ensure proper 50 Ohm load before applying RF.
3. Picture shown above is Indicative only, SN or PN may differ from actual unit. refer to outline on page 2 for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

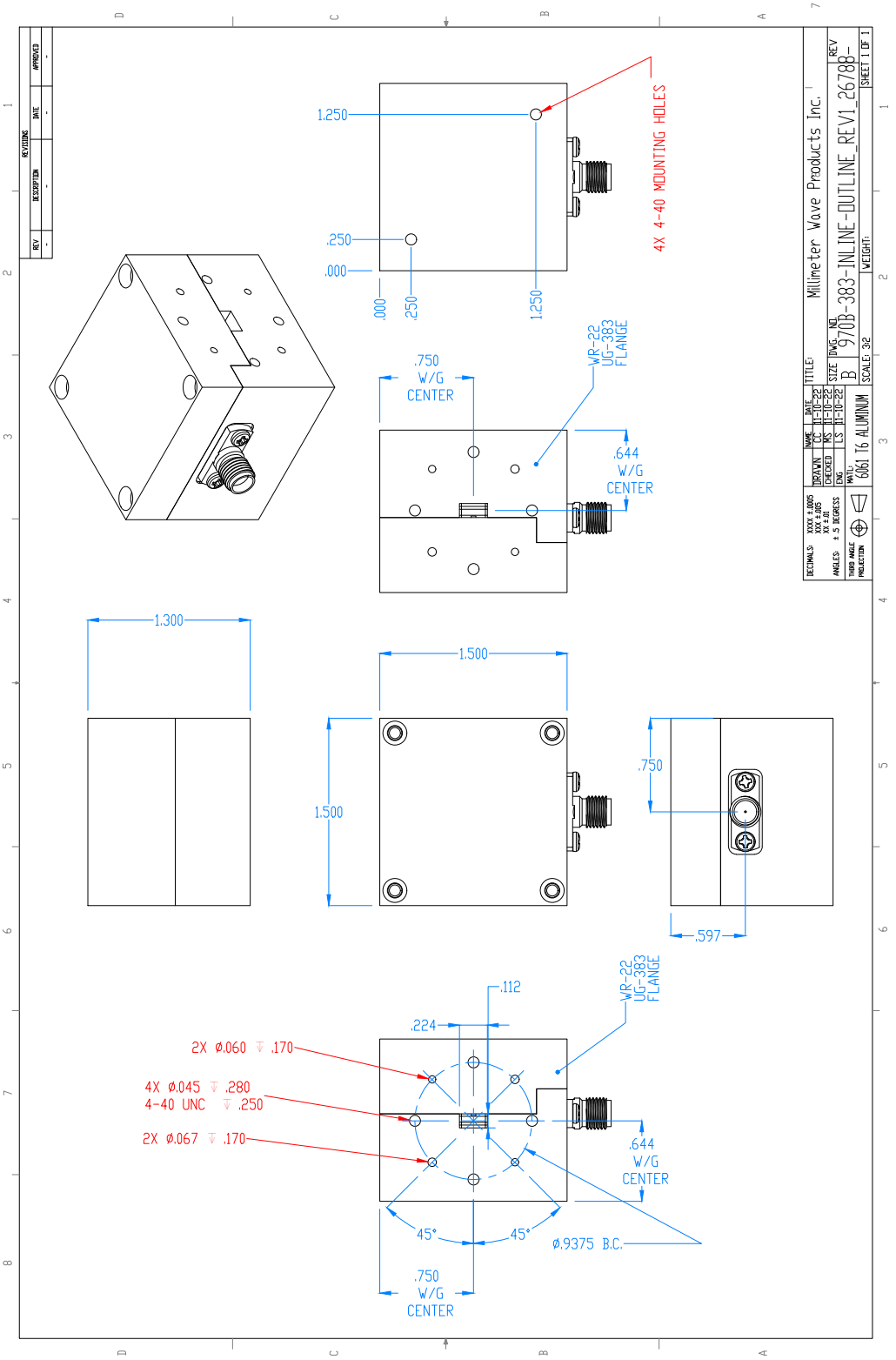
The material presented in this datasheet was current at the time of publication. Mi-Wave's continuing product improvement program makes it necessary to reserve the right to change our mechanical and electrical specifications without notice. If either of these parameters is critical, please contact the factory to verify that the information is current. This material consists of Mi-Wave's general capabilities information and does not contain controlled technical data as defined within the International Traffic in Arms (ITAR) Part 120.10 or Export Administration Regulations.(EAR) Part 734.7-11. D-405/05.01.18

LO Frequency (GHz)	IF Input Frequency (GHz)	RF Output Frequency (GHz)	IF to RF Conversion Loss (dB)
33	1	34	8.6
33	2	35	8.7
33	3	36	8.6
33	4	37	9.5
33	5	38	9.5
33	6	39	9.8
33	7	40	11.1
33	8	41	10.9
33	9	42	10.4
33	10	43	11.2
33	11	44	12.2
33	12	45	13.8
33	13	46	15.2
33	14	47	15.3
33	15	48	13.8
33	16	49	12.6
33	17	50	11.5



The material presented in this datasheet was current at the time of publication. Mi-Wave's continuing product improvement program makes it necessary to reserve the right to change our mechanical and electrical specifications without notice. If either of these parameters is critical, please contact the factory to verify that the information is current. This material consists of Mi-Wave's general capabilities information and does not contain controlled technical data as defined within the International Traffic in Arms (ITAR) Part 120.10 or Export Administration Regulations.(EAR) Part 734.7-11. D-405/05.01.18

Outline Drawing



The material presented in this datasheet was current at the time of publication. Mi-Wave's continuing product improvement program makes it necessary to reserve the right to change our mechanical and electrical specifications without notice. If either of these parameters is critical, please contact the factory to verify that the information is current. This material consists of Mi-Wave's general capabilities information and does not contain controlled technical data as defined within the International Traffic in Arms (ITAR) Part 120.10 or Export Administration Regulations.(EAR) Part 734.7-11. D-405/05.01.18