970EF/387

E-Band Balanced Mixer



SN: 772Z8Z

Picture shown above is indicative only.[3]

Physical Properties

- Material: 6061 T6 Aluminum
- Dimensions: 1.1x1.0x1.0 Inches
- Flange: UG-387/U
- Finish: Gold Plating
- LO Port: WR-12 Waveguide
- RF Port: WR-12 Waveguide
- IF Port: SMA-F

Electrical Specifications @ 25°C		Test Data			
Parameters	**Specifications**	**Min.**	**Typ.**	**Max.**	**Unit**
RF Frequency	60 to 90	60	-	90	GHz
LO Frequency	60 to 90	60	-	90	GHz
IF Frequency	DC to 30	DC	-	30	GHz
LO Drive Level	+13 typ.	+10	+13	+15	dBm
Conversion Loss (I+Q)	10 typ.	-	10	-	dB
LO-RF Leakage	28 typ.	-	28	-	dB

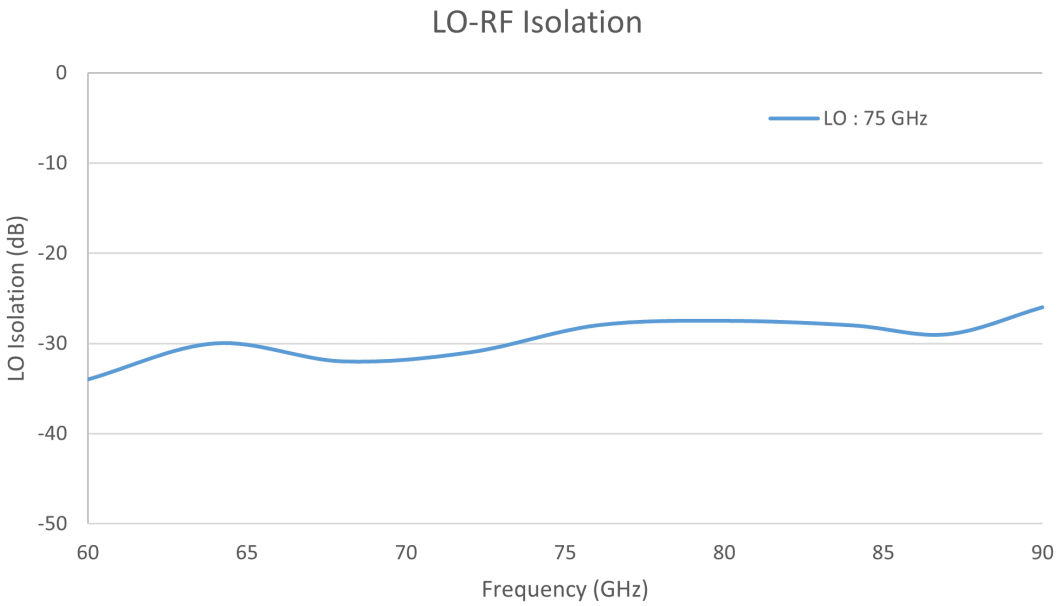
1. Do not put any foreign objects inside the waveguide. Warranty Void.
2. Open and short-circuit loads are not recommended at the mixer output. Ensure proper 50 Ohm load before applying RF.
3. Picture shown above is Indicative only, SN or PN may differ from actual unit. refer to outline on page 2 for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

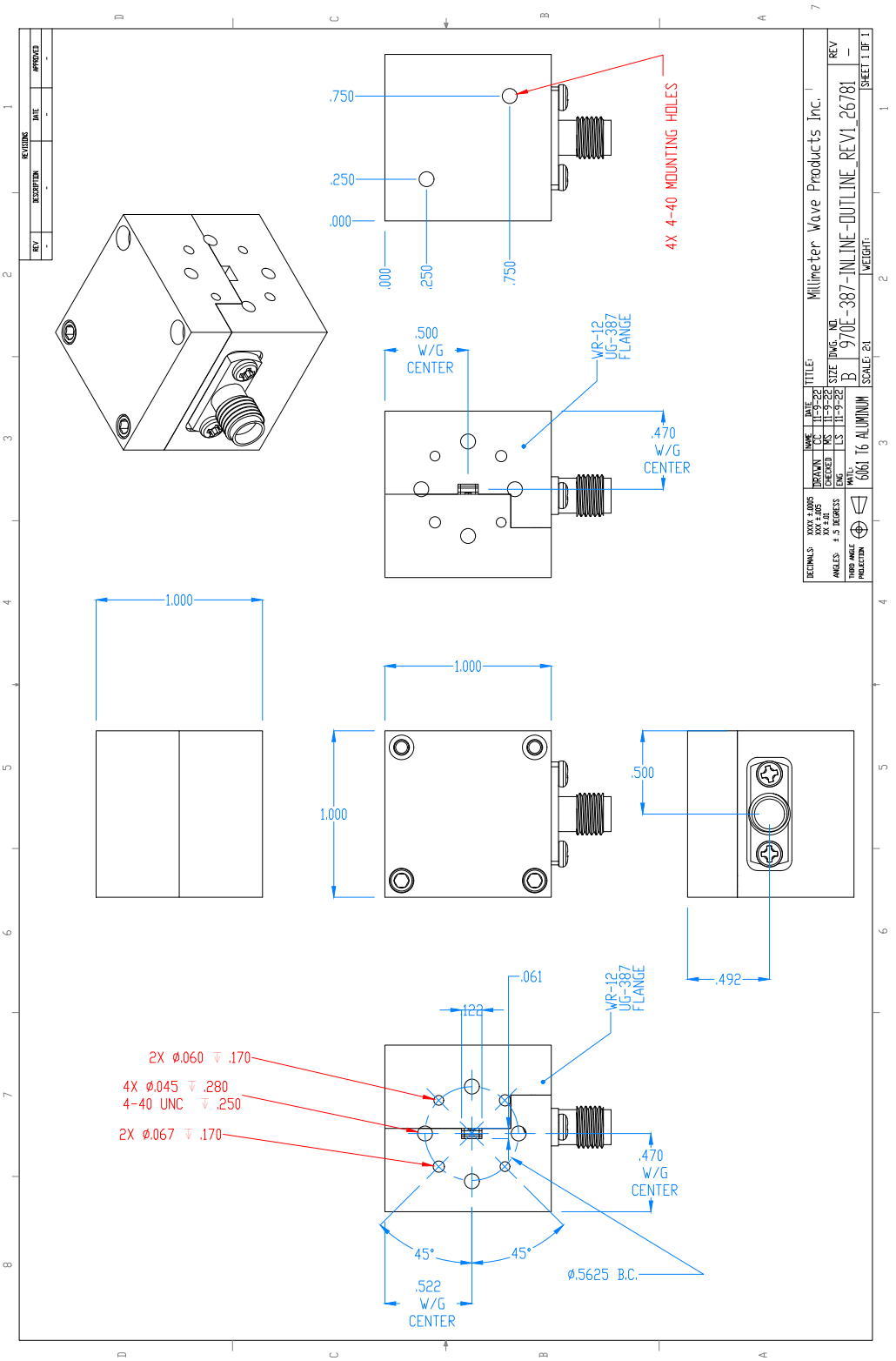
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LO Frequency (GHz)	IF Input Frequency (GHz)	RF Output Frequency (GHz)	IF to RF Conversion Loss (dB)
60	1	61	9.1
60	2	62	9.5
60	3	63	9.6
60	4	64	8.5
60	5	65	7.5
60	6	66	8.6
60	7	67	9.0
60	8	68	9.6
60	9	69	11.0
60	10	70	9.3
60	11	71	9.8
60	12	72	10.0
60	13	73	9.7
60	14	74	10.7
60	15	75	12.3
60	16	76	10.3
60	17	77	8.7
60	18	78	9.7
60	19	79	10.7
60	20	80	10.2
60	21	81	10.6
60	22	82	9.4
60	23	83	10.8
60	24	84	11.3
60	25	85	11.4
60	26	86	11.9
60	27	87	11.6
60	28	88	11.6
60	29	89	11.5
60	30	90	12.7



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Outline Drawing



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