

REMEC

Double Balanced Mixer

RF Band

RF 1.0-2.0 GHz

LO 1.0-2.0 GHz

IF DC-1.0 GHz

Electrical Specifications ⁽¹⁾:

Parameter	Conditions			Specifications		
	RF(GHz)	LO(GHz)	IF(GHz)	Min	Typical	Max
SSB Conversion loss: ⁽²⁾	1.0-2.0	1.0-2.0	DC-1.0		8.0 dB	9.0 dB
Isolation						
LO to RF:		1.0-2.0		30 dB	38 dB	
LO to IF:		1.0-2.0		20 dB	25 dB	
Input 1-dB Compression Point:	1.0-2.0	1.0-2.0	DC-1.0		+3 dBm +5 dBm +15 dBm	M63 M66 M67
Desensitization Point:	1.0-2.0	1.0-2.0	DC-1.0		+1 dBm +3 dBm +13 dBm	M63 M66 M67
Input Third Order Intercept Point:	1.0-2.0	1.0-2.0	DC-1.0		+13 dBm +15 dBm +26 dBm	M63 M66 M67
LO Power: ⁽³⁾	1.0-2.0	1.0-2.0	DC-1.0		+7 dBm +13 dBm +23 dBm	M63 M66 M67

M6xT

LO Power

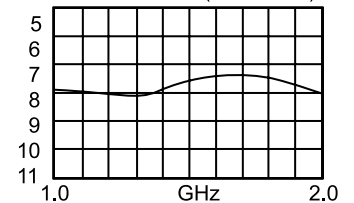
3 = +7 dBm
6 = +13 dBm
7 = +23 dBm

Notes:

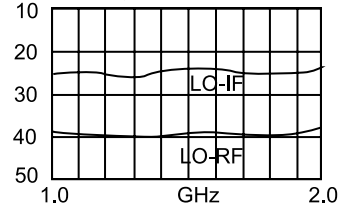
- Specifications are guaranteed when tested as a downconverter in a 50 Ohm system at +25°C with the nominal LO power. Specifications indicated as typical are not guaranteed.
- SSB Noise figure is nominally within ±0.5 dB of the SSB conversion loss for IF frequencies greater than 10 MHz.
- Usable LO drives are up to 2 dB below and 3 dB above nominal.

Typical Performance at 25°C

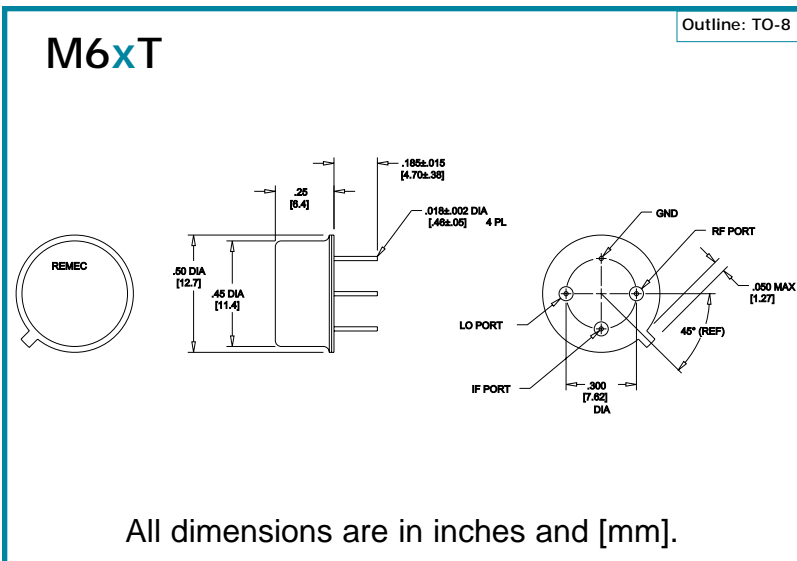
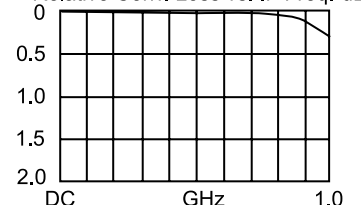
Conversion Loss (70 MHz IF)-dB



LO to RF, LO to IF Isolation-dB



Relative Conv. Loss vs. IF Freq.-dB



Specifications subject to change without notice.