

Double Balanced Mixer

RF Band

Model M6xT

RF 1.0 to 2.0 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: LO to IF:		1.0-2.0 1.0-2.0		30 dB 20 dB	38 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

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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

