



DBM-700  
 High Level  
 Subminiature  
 Mismatch Insensitive  
 Flatback Double  
 Balanced Mixer  
 1-3500 MHz



**DESCRIPTION**

DBM-700 is a high performance double balanced mixer that offers extremely wide bandwidth. This mixer features intermodulation performance that is virtually insensitive to mismatches on any or all of its ports. Due to almost constant linearity across its entire band, the DBM-700's 3rd order IM products are essentially flat. This mixer is ideal to use in applications where elaborate and expensive matching networks are prohibitive. The subminiature package is sealed, RFI shielded and constructed to withstand severe environments.

**GUARANTEED MINIMUM PERFORMANCE DATA**

**TEST CONDITION:**

LO + 10 dBm (High side LO)  
 RF - 10 dBm  
 IF 100 MHz

**NOTE:**

Specifications below, guaranteed with IF from 50 to 800 MHz. For higher IF frequencies, consult IF response curve for typical rolloff.

**OVERALL FREQUENCY RANGE IN MHz:**

L	R	X
1-3500	1-3500	5-2500

**FREQUENCY BANDS IN MHz:**

	5-1000	1000-3000	1-3500
Conversion Loss	7.5	8.5	9.5
L-R Isolation	30	20	20
L-X Isolation	30	20	20
R-X Isolation	20	20	18

**ABSOLUTE MAXIMUM RATINGS:**

Operating Temp. - 54 to +100°C  
 Total Input Power 400 mW @ +25°C  
 Derate linearly to 100 mW @ 100°C

Specifications subject to change without notice.

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