

2 to 8 GHz Double Balanced MESFET Mixer with +30 DBM Input 3rd Order Intercept

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Typical third order input intercept (IP3) of +30 dBm was achieved from 2 to 8 GHz using a double balanced MESFET mixer operating in the unbiased or passive mode with +23 dBm LO input power. A quality factor is defined to show the efficiency of third order intercept to available LO power. Also, a single balanced MESFET mixer from 4 to 18 GHz with IP3 greater than +25 dBm is discussed.

 [Return to main document.](#)