

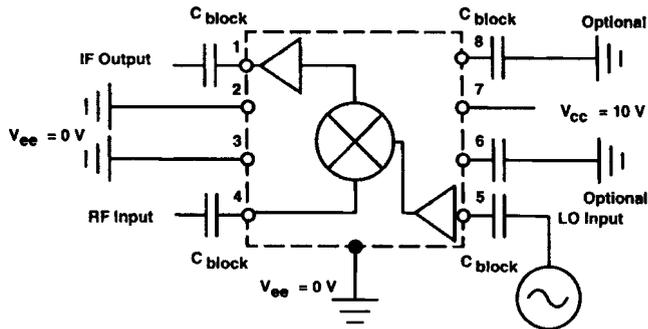
NEUHOLD - ELEKTRONIK INFO

Griesplatz 1 und Griesgasse 33 A 8020 Graz Fax. 0316/717419 Telefon 0316 - 711245

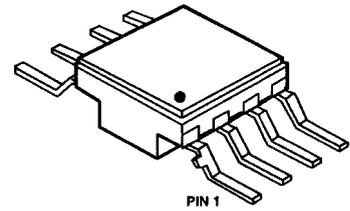
Silicon Bipolar MMIC 5 GHz Active Double Balanced Mixer/ IF Amp

IAM-82018

Typical Biasing Configuration and Functional Block Diagram

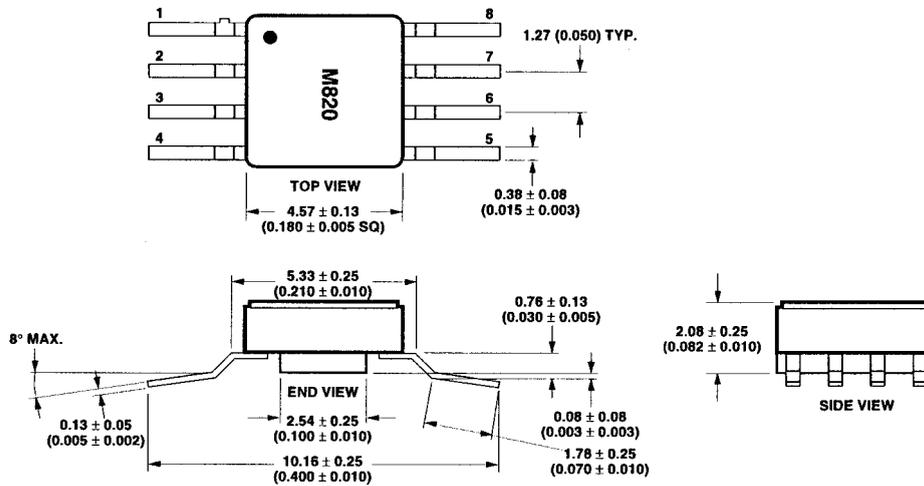


28 Package



Package Dimensions

28 Package



DIMENSIONS ARE IN MILLIMETERS (INCHES)

3-Port Double-Balanced Mixers (Typical Specifications at +25°C Case Temperature.)

Model	RF and LO Frequency (GHz)	IF Frequency (GHz)	RF-IF Conversion Gain (dB)	Third Order Intercept Point (dBm)	LO-RF Isolation (dB)	Minimum Power Supply Voltage (V)	Device Current (mA)	Case Type
IAM-81018	0.05-5.0	DC to 1.0	8.5 ¹	+3 ¹	35 ¹	5	12.5	180 mil surface mount
IAM-82018	0.05-5.0	DC to 2.0	15.0 ²	+18 ²	30 ²	10	50	180 mil surface mount

Notes: 1. -20 dBm RF input, -5 dBm LO input, RF at 2.0 GHz, LO at 1.75 GHz.
 2. -20 dBm RF input, 0 dBm LO input, RF at 2.0 GHz, LO at 1.75 GHz.
 3. -20 dBm RF input, RF at 1.575 GHz, LO at 1.4 GHz.
 4. -20 dBm RF input, RF at 4.2 GHz, LO at 5.15 GHz.
 5. f = 0.05 to 5.0 GHz