

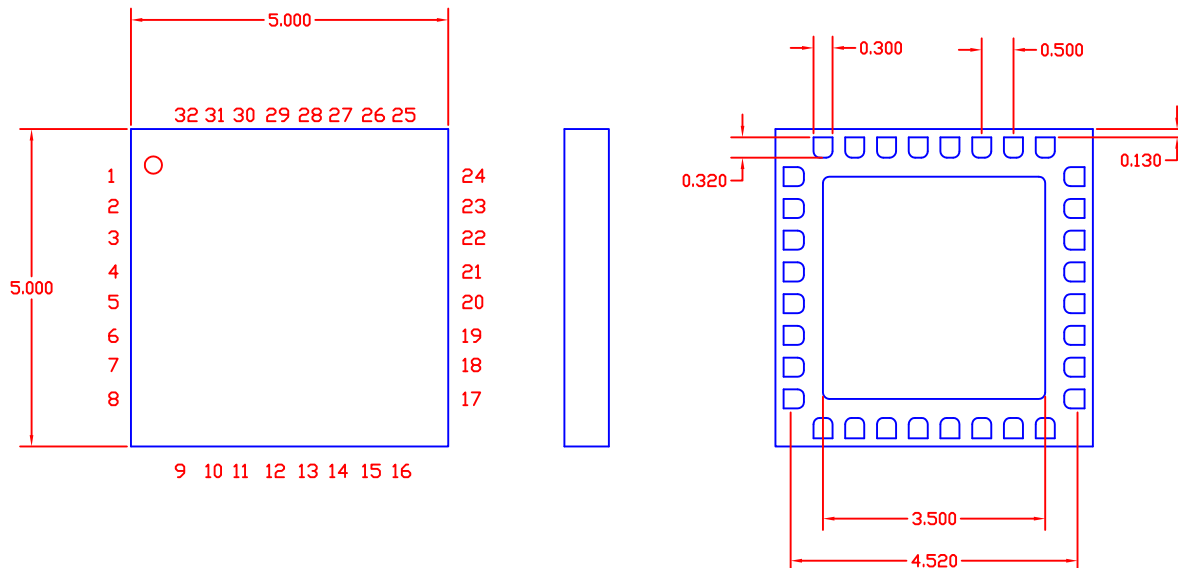
DESCRIPTION:

PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER PSMT-0001 IS AN INTEGRATED RF LIMITER AND LOW-NOISE, RF AMPLIFIER THAT OPERATES OVER THE 14.4 TO 15.4GHz FREQUENCY RANGE. THIS AMPLIFIER PROVIDES A TYPICAL GAIN OF 18dB WITH A TYPICAL LOW NOISE FIGURE OF 2.5dB. THE LIMITER AND LNA MODULE CAN HANDLE INPUT POWER LEVELS UP TO +30dBm. THIS ITEM IS SUPPLIED IN A STANDARD 5X5 QFN 32 LEAD SMT PACKAGE.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	6/2/11	
	A2	ECN # 15-0004	1/29/15	

SPECIFICATIONS:

- FREQUENCY: 14.4 to 15.4GHz
- GAIN: 20dB Typ., 16.5dB Min.
- GAIN FLATNESS: +/-0.5dB Max.
- NOISE FIGURE: 2.5dB Typ.
- OP1dB: +10dBm Min.
- VSWR IN/OUT: 2.0:1 Typ.
- INPUT POWER: +30dBm CW Max.
- RF INPUT/OUTPUT: AC Coupled / DC Blocked
- DC POWER: 100mA @ 3.5VDC
- PACKAGE: QFN 5x5 32L



PINS	DESCRIPTION
1 THRU 4	NOT USED
5	RF INPUT
6 THRU 19	NOT USED
20	RF OUTPUT
21 THRU 29	NOT USED
30	+3.5VDC
31 THRU 32	NOT USED

PMI CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS

- TEMPERATURE: -40°C TO +85°C (OPERATING)
..... -65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204B COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

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 ISO 9001 CERTIFIED



ALL DIMENSIONS ARE IN MILLIMETERS
 TOLERANCES:
 X.XX ±0.020
 X.XXX ±0.010

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

APPROVALS		DATE	TITLE		
DRAWN		6/2/11	PRODUCT FEATURE		
CHECKED			PSMT-0001		
ISSUED			RF LIMITER & LNA		
SIZE	FSCM NO.	DWG NO.	REV.		
A	05XQ0	27014781	A2		
SCALE	N:S	SHEET	1 OF 1		