

CONFIDENTIAL

TABLE 1.1, ABSOLUTE MAXIMUM RATINGS

Operating Temperature Range	-40 to +85 degrees C
Storage Temperature Range	-55 to +125 degrees C
Vcc Voltage, Vdc	+13.0
Vtune Voltage, Vdc	+16.0
DC Voltage applied to RF out	+/- 25

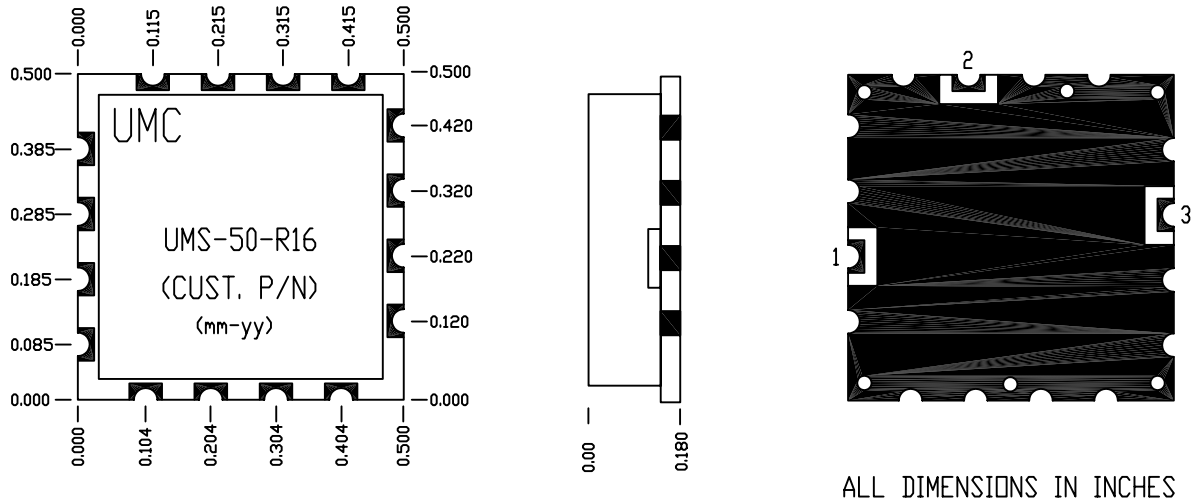


TABLE 1.2, CONTACT ASSIGNMENTS

CONTACT ASSIGNMENTS:	
1: RF OUT	
2: SUPPLY INPUT	
3: TUNING VOLTAGE INPUT	
ALL OTHER CONTACTS ARE GROUND	

Unless otherwise specified,
dimensions are in inches

Universal Microwave Corporation
Proprietary Document

Prepared by: M.BANKS 5/28/04

Engineer:

Universal Microwave Corporation
2339 Destiny Way
Odessa, FL 33556

Universal Microwave Corp.

SPECIFICATION CONTROL DRAWING FOR UMS-50-R16

SIZE
A

FSCM NO.

DWG NO.

UP-503

REV
A

SCALE: N/A

SHEET 1 OF 2

	MIN.	TYP.	MAX.
Frequency, MHz	25		50
Power Output, dBm	+7.0	+9.0	+11.0
Harmonics, dBc		-15	-10
SSB Phase Noise, dBc/Hz:			
@ Offset = 1kHz		-100	-94
@ Offset = 10kHz		-125	-119
@ Offset = 100kHz		-145	-139
@ Offset = 1MHz		-164	-155
@ Offset = 10MHz		-164	-155
Pushing, MHz/V		0.05	0.1
Pulling, MHz p-p, @12dBr, all phases		0.1	0.2
Tuning Voltage, Vdc	+1.0		+15.0
Tuning Sensitivity, MHz/V		2.4	
Frequency drift with temperature:			
@ -40°C, MHz		0.2	
@ +85°C, MHz		0.2	
Supply Voltage, Vdc		+12.0	
Supply Current, mA		18	
Output Power @ $V_t = 0$ and 15V	+7.0		
Tuning Port Capacitance, pF		1000	
3dB Modulation Bandwidth, kHz		100	

TABLE 1.3 ELECTRICAL SPECIFICATIONS

SPECIFICATION CONTROL DRAWING			
Drawing No. UMS-50-R16			
Size	A		REV A
			SHEET 2 OF 2