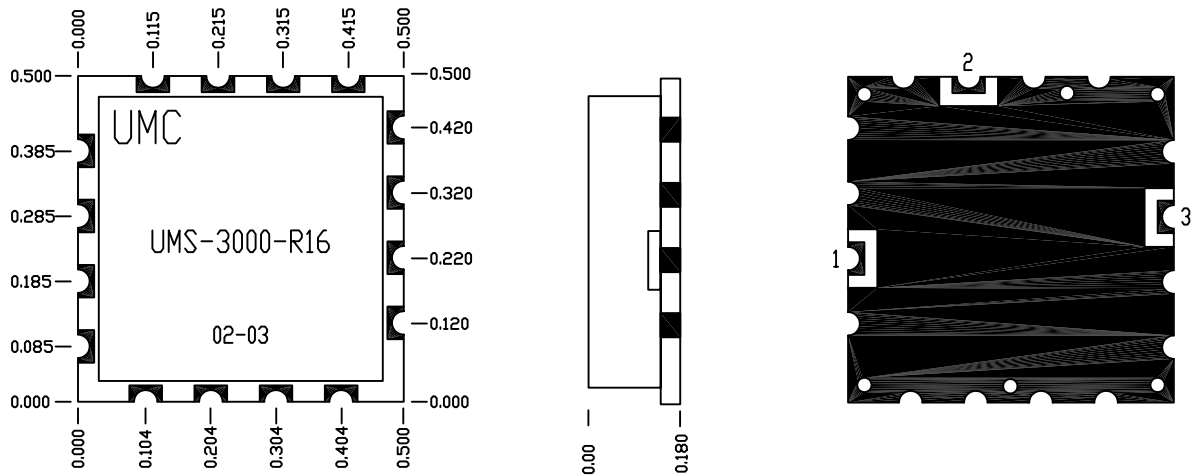


# CONFIDENTIAL

TABLE 1.1, ABSOLUTE MAXIMUM RATINGS

Operating Temperature Range	-40 to +85 degrees C
Storage Temperature Range	-55 to +100 degrees C
Vcc Voltage, Vdc	+12.5
Vtune Voltage, Vdc	+15
DC Voltage applied to RF out	+/- 25



ALL DIMENSIONS IN INCHES

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

Proprietary Information  
Universal Microwave Corporation

Prepared by: M.Banks 2/24/03

Universal Microwave Corporation  
2339 Destiny Way  
Odessa, FL 33556

## Universal Microwave Corp.

### SPECIFICATION CONTROL DRAWING FOR UMS-3000-R16

SIZE  
A

FSCM NO.

DWG NO.

UP-306

REV  
X

SCALE

SHEET 1 OF 2

# Confidential

	MIN.	TYP.	MAX.
Frequency, MHz	2000		3000
Power Output, dBm	+7	+10	+13
Harmonics, dBc	--	-18	-12
SSB Phase Noise, dBc/Hz			
@ Offset = 1kHz	--	-68	-63
@ Offset = 10kHz	--	-95	-90
@ Offset = 100kHz	--	-115	-110
@ Offset = 1MHz	--	-125	-120
@ Offset = 10MHz	--	-145	-140
Pushing, MHz/V	--	1.5	5
Pulling, MHz p-p, @12dB <sub>r</sub> , all phases	--	25	--
Tuning Voltage, Vdc	1		13
Tuning Sensitivity, MHz/V	--	95	--
Frequency drift with temperature			
@ -40 degrees C, MHz	--	15	--
@ +85 degrees C, MHz	--	15	--
Supply Voltage, Vdc	--	12	--
Supply Current, mA <sub>dc</sub>	--	28	30
Output Power @ V <sub>tune</sub> = 0 and 13V	+6	--	--
Tuning Port Capacitance, pF	--	10	--
3dB Modulation Bandwidth, kHz	--	25000	--

TABLE 1.0, ELECTRICAL SPECIFICATIONS

Unless otherwise specified, dimensions are in inches	Universal Microwave Corp.		
	SPECIFICATION CONTROL DRAWING FOR UMS-3000-R16		
Proprietary Information Universal Microwave Corporation	SIZE A	FSCM NO.	DWG NO. UP-306
Prepared by: Maris Banks 2-25-03			REV X
Universal Microwave Corporation 2339 Destiny Way Odessa, FL 33556	SCALE	SHEET 2 OF 2	