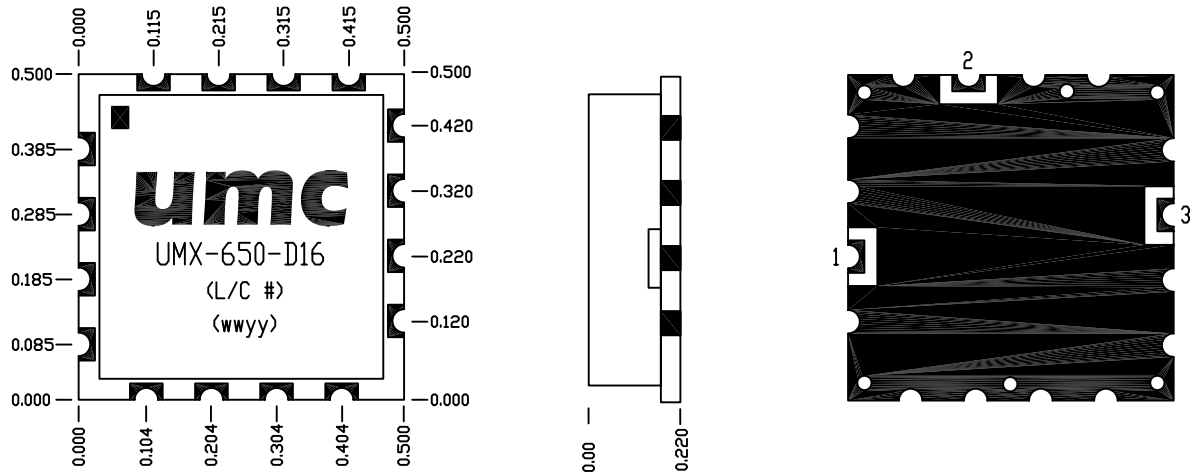




CONFIDENTIAL

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	+7.5
Vtune Voltage, Vdc	+5.0
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  
 TOLERANCES  
 .X =+/-0.1  
 .XX =+/-0.01  
 .XXX =+/-0.005  
 ANG =+/-2°  
 Universal Microwave Corporation  
 Proprietary Information  
 Prepared by: M.BANKS 8/4/05  
 Engineer:  
 Universal Microwave Corporation  
 2339 Destiny Way  
 Odessa, FL 33556

Universal Microwave Corp.

SPECIFICATION CONTROL  
 DRAWING FOR UMX-650-D16

SIZE A	FSCM NO.	DWG NO. UP-650	REV A
SCALE N/A		SHEET 1 OF 2	

	MIN.	TYP.	MAX.
Frequency, MHz		1500	
Power Output, dBm	+6.0	+8.0	+10.0
Harmonics, dBc		-15	-10
SSB Phase Noise, dBc/Hz:			
@ Offset = 1kHz		-100	-95
@ Offset = 10kHz		-125	-120
@ Offset = 100kHz		-145	-140
@ Offset = 1MHz		-164	-155
@ Offset = 10MHz		-164	-155
Pushing, MHz/V		0.1	0.2
Pulling, MHz p-p, @12dB <sub>r</sub> , all phases		0.2	0.5
Tuning Voltage, Vdc	+0.5		+4.5
Tuning Sensitivity, MHz/V	3.5	4.0	4.5
Frequency drift with temperature:			
@ -40°C, MHz		0.7	1.5
@ +85°C, MHz		0.7	1.5
Supply Voltage, Vdc		+6.5	
Supply Current, mA		29	
Output Power @ $V_t = 0$ and 5V	+6.0		
Tuning Port Capacitance, pF		47	
3dB Modulation Bandwidth, kHz		1000	

TABLE 1.3 ELECTRICAL SPECIFICATIONS

<b>SPECIFICATION CONTROL DRAWING</b>			
Drawing No. UMX-650-D16			
Size	A	REV	A
Engineer: T. Kraus 8/17/04		SHEET 2 OF 2	