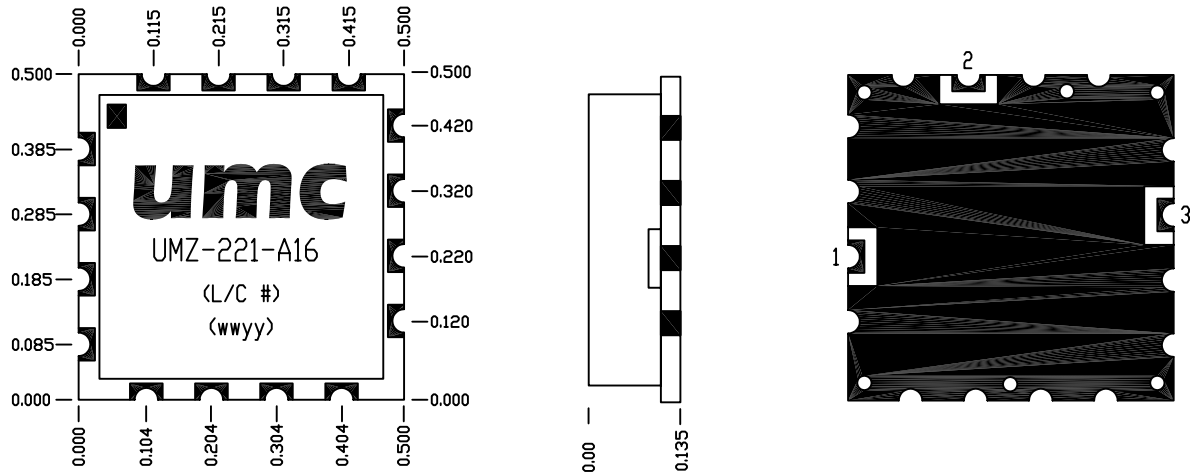




CONFIDENTIAL

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	+5.5
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 = +/- .1  
.XX = +/- .01  
.XXX = +/- .005  
ANG = +/- 2°  
Universal Microwave Corporation  
Proprietary Information  
Prepared by: A.BYRD 7/26/05  
Engineer:  
Universal Microwave Corporation  
2339 Destiny Way  
Odessa, FL 33556

Universal Microwave Corp.

SPECIFICATION CONTROL  
DRAWING FOR UMZ-221-A16

SIZE A	FSCM NO.	DWG NO. UP-221	REV A
SCALE N/A		SHEET 1 OF 2	

	MIN.	TYP.	MAX.
Frequency, MHz	600		650
Power Output, dBm	-2.5	0	+2.5
Harmonics, dBc		-20	-10
SSB Phase Noise, dBc/Hz:			
@ Offset = 1kHz		-90	-85
@ Offset = 10kHz		-115	-110
@ Offset = 100kHz		-135	-130
@ Offset = 1MHz		-155	-150
@ Offset = 10MHz		-164	-155
Pushing, MHz/V		0.5	1.0
Pulling, MHz p-p, @12dB <sub>r</sub> , all phases		1.0	2.0
Tuning Voltage, Vdc	+0.5		+4.5
Tuning Sensitivity, MHz/V		18	
Frequency drift with temperature:			
@ -40°C, MHz		2.5	5
@ +85°C, MHz		2.5	5
Supply Voltage, Vdc		+5.0	
Supply Current, mA		14	
Output Power @ $V_t = 0$ and 5V	-2.5		
Tuning Port Capacitance, pF		100	
3dB Modulation Bandwidth, kHz		1000	

TABLE 1.3 ELECTRICAL SPECIFICATIONS

<b>SPECIFICATION CONTROL DRAWING</b>			
Drawing No. UMZ-221-A16			
Size	A	REV	A
Engineer: PJE 7/26/05		SHEET 2 OF 2	