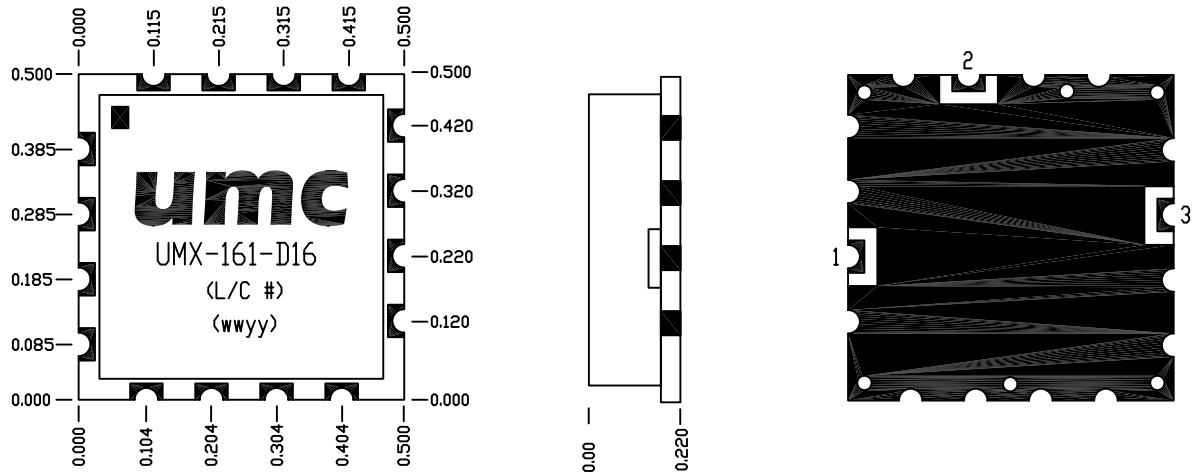




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TABLE 1.1, ABSOLUTE MAXIMUM RATINGS

Operating Temperature Range	-40 to +85 degrees C
Storage Temperature Range	-55 to +125 degrees C
Vcc Voltage, Vdc	+7.0
Vtune Voltage, Vdc	+15.0
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 7/21/05  
 Engineer:  
 Universal Microwave Corporation  
 2339 Destiny Way  
 Odessa, FL 33556

Universal Microwave Corp.

SPECIFICATION CONTROL  
 DRAWING FOR UMX-161-D16

SIZE A	FSCM NO.	DWG NO. UP-161	REV B
SCALE N/A		SHEET 1 OF 2	

	MIN.	TYP.	MAX.
Frequency, MHz	1960		2350
Power Output, dBm	+5.0	+7.0	+9.0
Harmonics, dBc		-20	-10
SSB Phase Noise, dBc/Hz:			
@ Offset = 1kHz		-80	-75
@ Offset = 10kHz		-106	-101
@ Offset = 100kHz		-126	-121
@ Offset = 1MHz		-146	-141
@ Offset = 10MHz		-160	-155
Pushing, MHz/V		1.0	3.0
Pulling, MHz p-p, @12dB <sub>r</sub> , all phases		2.0	5.0
Tuning Voltage, Vdc	+1.0		+14.0
Tuning Sensitivity, MHz/V		37	
Frequency drift with temperature:			
@ -40°C, MHz		8	12
@ +85°C, MHz		8	12
Supply Voltage, Vdc		+6.0	
Supply Current, mA		27	
Output Power @ $V_t = 0$ and 14V	+4.0		
Tuning Port Capacitance, pF		47	
3dB Modulation Bandwidth, kHz		1000	

TABLE 1.3 ELECTRICAL SPECIFICATIONS

<b>SPECIFICATION CONTROL DRAWING</b>			
Drawing No. UMX-161-D16			
Size	A		REV B
Engineer:	T.Kraus 7/21/05		SHEET 2 OF 2