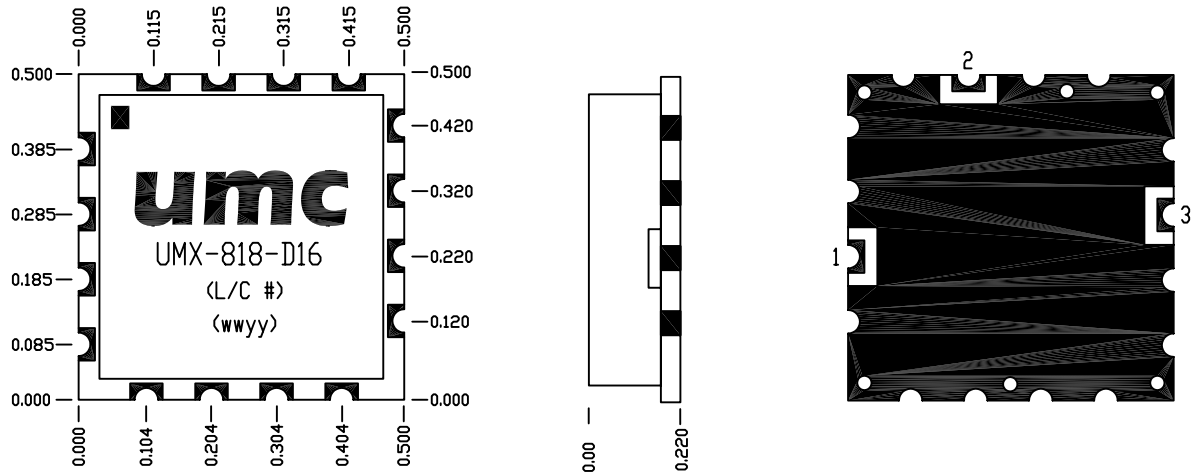




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TABLE 1.1, ABSOLUTE MAXIMUM RATINGS

Operating Temperature Range	-40 to +85 degrees C
Storage Temperature Range	-55 to +125 degrees C
Vcc Voltage, Vdc	+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 =+/-0.1  
 .XX =+/-0.01  
 .XXX =+/-0.005  
 ANG =+/-2°  
 Universal Microwave Corporation  
 Proprietary Information  
 Prepared by: A.BYRD 11/15/05  
 Engineer:  
 Universal Microwave Corporation  
 2339 Destiny Way  
 Odessa, FL 33556

Universal Microwave Corp.

SPECIFICATION CONTROL  
 DRAWING FOR UMX-818-D16

SIZE A	FSCM NO.	DWG NO. UP-818	REV A
SCALE N/A		SHEET 1 OF 2	

	MIN.	TYP.	MAX.
Frequency, MHz	1390		1410
Power Output, dBm	-2.0	0	+2.0
Harmonics, dBc		-15	-10
SSB Phase Noise, dBc/Hz:			
@ Offset = 1kHz		-98	-93
@ Offset = 10kHz		-123	-118
@ Offset = 100kHz		-143	-138
@ Offset = 1MHz		-163	-158
@ Offset = 10MHz		-164	-159
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		7.5	
Frequency drift with temperature:			
@ -40°C, MHz		2	3
@ +85°C, MHz		2	3
Supply Voltage, Vdc		+5.0	
Supply Current, mA		27	30
Output Power @ $V_t = 0$ and 5V	-2.0		
Tuning Port Capacitance, pF		65	
3dB Modulation Bandwidth, kHz		1000	

TABLE 1.3 ELECTRICAL SPECIFICATIONS

<b>SPECIFICATION CONTROL DRAWING</b>			
Drawing No. UMX-818-D16			
Size	A		REV A
Engineer:	R.CALABRESE	11/15/05	SHEET 2 OF 2