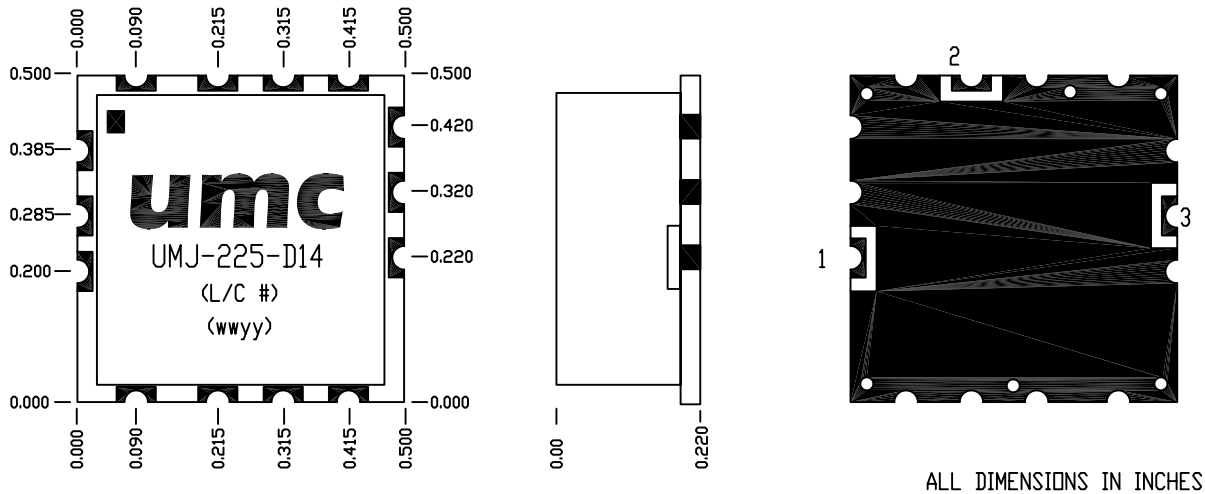




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TABLE 1.1, ABSOLUTE MAXIMUM RATINGS

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 =+/- .1  
 .XX =+/- .01  
 .XXX =+/- .005  
 ANG =+/- 2°  
 Universal Microwave Corporation  
 Proprietary Document

Universal Microwave Corp.  
 SPECIFICATION CONTROL  
 DRAWING FOR UMJ-225-D14

Prepared by: A.BYRD 10/5/05  
 Engineer:  
 Universal Microwave Corporation  
 2339 Destiny Way  
 Odessa, FL 33556

SIZE A	FSCM NO.	DWG NO. UP-225	REV A
SCALE: N/A		SHEET 1 OF 2	

	MIN.	TYP.	MAX.
Frequency, MHz	270		290
Power Output, dBm	+7.0	+9.0	+11.0
Harmonics, dBc		-20	-10
<b>SSB Phase Noise, dBc/Hz:</b>			
@ Offset = 1kHz		-97	-92
@ Offset = 10kHz		-122	-117
@ Offset = 100kHz		-142	-137
@ Offset = 1MHz		-159	-154
@ Offset = 10MHz			
Pushing, MHz/V		0.5	1
Pulling, MHz p-p, @12dB <sub>r</sub> , all phases		0.5	1
Tuning Voltage, Vdc	+0.5		+4.5
Tuning Sensitivity, MHz/V		10	
<b>Frequency drift with temperature:</b>			
@ -40°C, MHz		1.5	3
@ +85°C, MHz		1.5	3
Supply Voltage, Vdc		+5.0	
Supply Current, mA		18	22
Output Power @ $V_t = 0$ and 5V	+6.0		
Tuning Port Capacitance, pF		330	
3dB Modulation Bandwidth, kHz		100	

TABLE 1.3 ELECTRICAL SPECIFICATIONS

<b>SPECIFICATION CONTROL DRAWING</b>			
Drawing No. UMJ-225-D14			
Size	A	REV	A
Engineer: PJE 10/5/05		SHEET 2 OF 2	