



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	+9.0
Vtune Voltage, Vdc	+13.0
DC Voltage applied to RF out	+/- 25

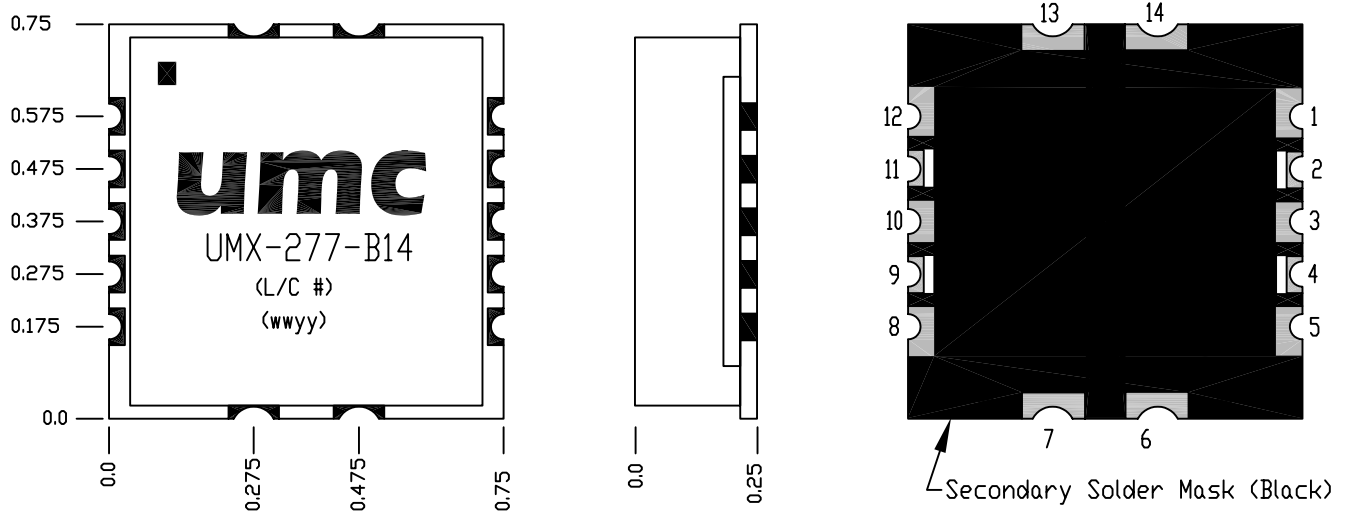


TABLE 1.2, CONTACT ASSIGNMENTS

CONTACT ASSIGNMENTS:	
2: TUNING VOLTAGE INPUT	
4: NO CONNECT	
9: RF OUTPUT	
11: DC SUPPLY 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 UMX-277-B14

Prepared by: A.BYRD 11/17/05

SIZE  
A

FSCM NO.

DWG NO.

UP-277

REV  
B

Universal Microwave Corporation  
2339 Destiny Way  
Odessa, FL 33556

SCALE: N/A

SHEET 1 OF 2

	MIN.	TYP.	MAX.
Frequency, MHz	982	--	1015
Power Output, dBm	+4.0	+6.0	+8.0
Harmonics, dBc		-20	-10
SSB Phase Noise, dBc/Hz:			
@ Offset = 100Hz		-74	-69
@ Offset = 1kHz		-104	-99
@ Offset = 10kHz		-127	-122
@ Offset = 100kHz		-147	-142
@ Offset = 1MHz		-165	-160
Pushing, MHz/V		0.1	0.4
Pulling, MHz p-p, @12dB <sub>r</sub> , all phases		0.3	1
Tuning Voltage, Vdc	0		+12.0
Tuning Sensitivity, MHz/V		3.6	
Frequency drift with temperature:			
@ -40°C, MHz		1	2
@ +85°C, MHz		0.8	2
Supply Voltage, Vdc		+8.0	
Supply Current, mA		29	
Output Power @ $V_t = 0$ and 12V	+5.0		
Tuning Port Capacitance, pF		47	
3dB Modulation Bandwidth, kHz		1000	

TABLE 1.3 ELECTRICAL SPECIFICATIONS

<b>SPECIFICATION CONTROL DRAWING</b>			
Drawing No. UMX-277-B14			
Size	A		REV B
Engineer:	T. Kraus 10/11/05		SHEET 2 OF 2