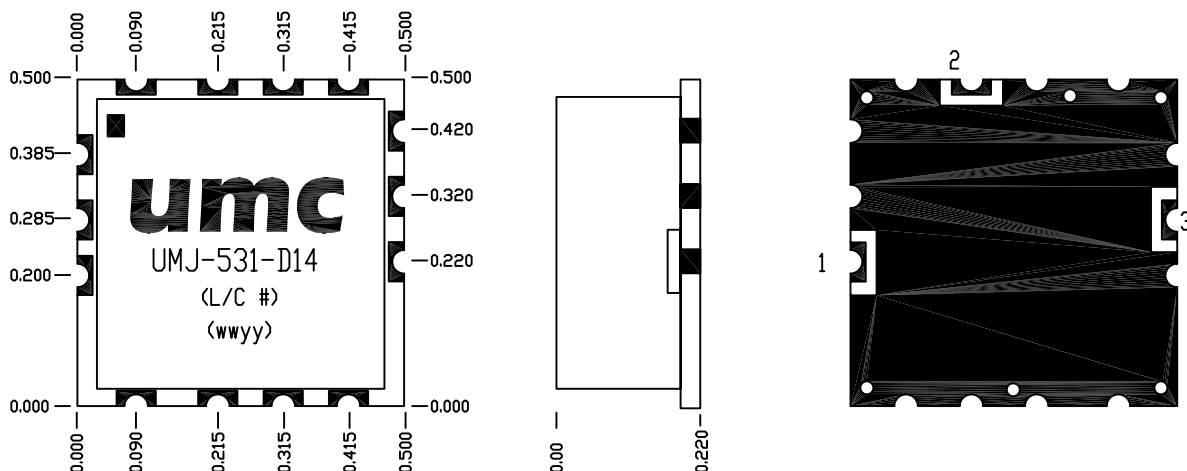




CONFIDENTIAL

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 Document

Universal Microwave Corp.
 SPECIFICATION CONTROL
 DRAWING FOR UMJ-531-D14

Prepared by: A.BYRD 9/6/05
 Engineer:
 Universal Microwave Corporation
 2339 Destiny Way
 Odessa, FL 33556

SIZE A	FSCM NO.	DWG NO. UP-531	REV A
SCALE: N/A		SHEET 1 OF 2	

	MIN.	TYP.	MAX.
Frequency, MHz		68.8	
Power Output, dBm	+7.0	+9.0	+11.0
Harmonics, dBc		-25	-20
SSB Phase Noise, dBc/Hz:			
@ Offset = 1kHz		-102	-97
@ Offset = 10kHz		-129	-125
@ Offset = 100kHz		-149	-145
@ Offset = 1MHz		-165	-160
@ Offset = 10MHz		-165	-160
Pushing, MHz/V		0.04	0.2
Pulling, MHz p-p, @12dB_r, all phases		0.1	0.3
Tuning Voltage, Vdc	+0.5		+4.5
Tuning Sensitivity, MHz/V		2	
Frequency drift with temperature:			
@ -40°C, MHz		0.2	0.5
@ +85°C, MHz		0.2	0.5
Supply Voltage, Vdc		+5.0	
Supply Current, mA		16	
Output Power @ $V_t = 0$ and 5V	+7.0		
Tuning Port Capacitance, pF		330	
3dB Modulation Bandwidth, kHz		100	

TABLE 1.3 ELECTRICAL SPECIFICATIONS

SPECIFICATION CONTROL DRAWING			
Drawing No. UMJ-531-D14			
Size	A	REV	A
Engineer: PJE 9/6/05		SHEET 2 OF 2	