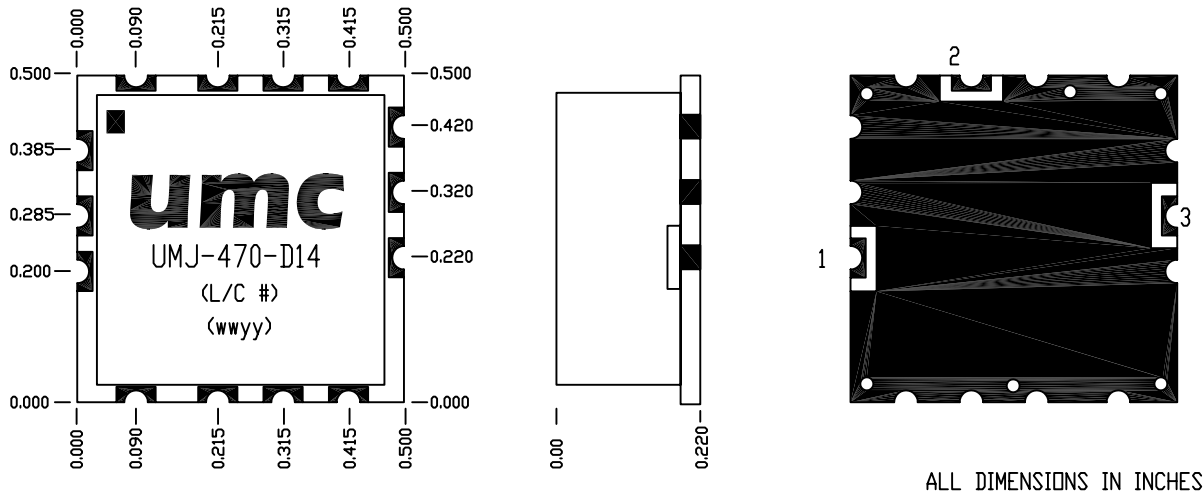




CONFIDENTIAL

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	+4.5
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 Document

Universal Microwave Corp.
 SPECIFICATION CONTROL
 DRAWING FOR UMJ-470-D14

Prepared by: A.BYRD 9/29/05
 Engineer:
 Universal Microwave Corporation
 2339 Destiny Way
 Odessa, FL 33556

SIZE A	FSCM NO.	DWG NO. UP-470	REV A
SCALE: N/A		SHEET 1 OF 2	

	MIN.	TYP.	MAX.
Frequency, MHz	85		88
Power Output, dBm	+7.0	+9.0	+11.0
Harmonics, dBc		-25	-20
SSB Phase Noise, dBc/Hz:			
@ Offset = 1kHz		-95	-90
@ Offset = 10kHz		-125	-120
@ Offset = 100kHz		-145	-140
@ Offset = 1MHz		-160	-155
@ Offset = 10MHz			
Pushing, MHz/V		.05	0.5
Pulling, MHz p-p, @12dB _r , all phases		0.2	1
Tuning Voltage, Vdc	+1.0		+4.0
Tuning Sensitivity, MHz/V		2.5	
Frequency drift with temperature:			
@ -40°C, MHz		0.5	
@ +85°C, MHz		0.5	
Supply Voltage, Vdc		+8.0	
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-470-D14			
Size	A	REV	A
Engineer: T.KRAUS 9/29/05		SHEET 2 OF 2	