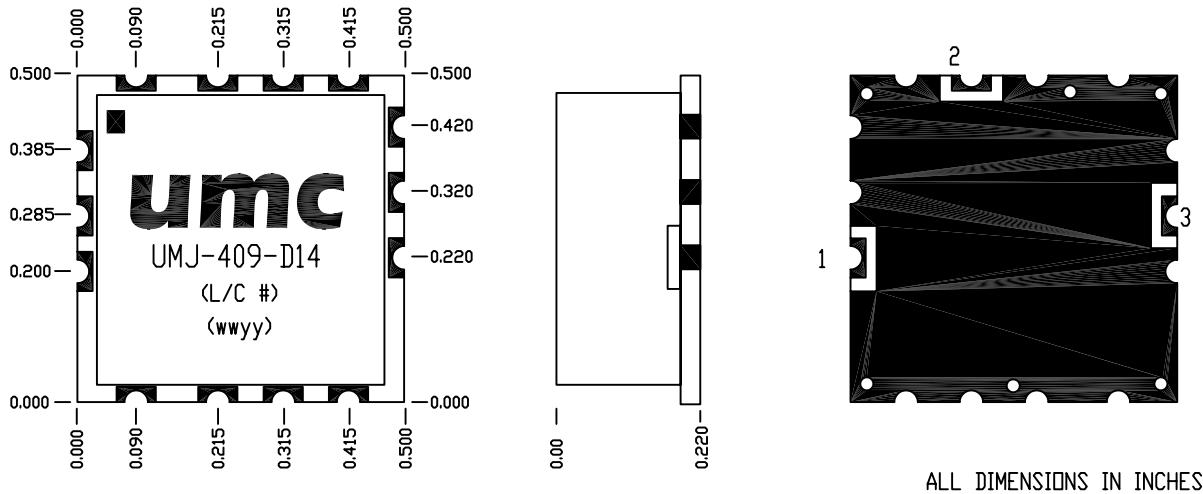




CONFIDENTIAL

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	+11.0
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

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Universal Microwave Corp.
 SPECIFICATION CONTROL
 DRAWING FOR UMJ-409-D14

SIZE A	FSCM NO.	DWG NO. UP-409	REV A
SCALE: N/A		SHEET 1 OF 2	

	MIN.	TYP.	MAX.
Frequency, MHz	45		53
Power Output, dBm	+7.0	+9.0	+11.0
Harmonics, dBc		-20	-15
SSB Phase Noise, dBc/Hz:			
@ Offset = 100Hz		-80	-77
@ Offset = 1kHz		-106	-103
@ Offset = 10kHz		-130	-126
@ Offset = 100kHz		-150	-145
@ Offset = 1MHz			
Pushing, MHz/V		0.04	0.1
Pulling, MHz p-p, @12dB_r, all phases		0.1	0.3
Tuning Voltage, Vdc	+1.0		+10.0
Tuning Sensitivity, MHz/V		2	
Frequency drift with temperature:			
@ -40°C, MHz		0.8	
@ +85°C, MHz		0.5	
Supply Voltage, Vdc		+5.0	
Supply Current, mA	12	15	20
Output Power @ V_t = 0	+6.0		
Tuning Port Capacitance, pF	300	330	360
3dB Modulation Bandwidth, kHz		100	

TABLE 1.3 ELECTRICAL SPECIFICATIONS

SPECIFICATION CONTROL DRAWING			
Drawing No. UMJ-409-D14			
Size	A	REV	A
Engineer: PJE 4/29/05		SHEET 2 OF 2	