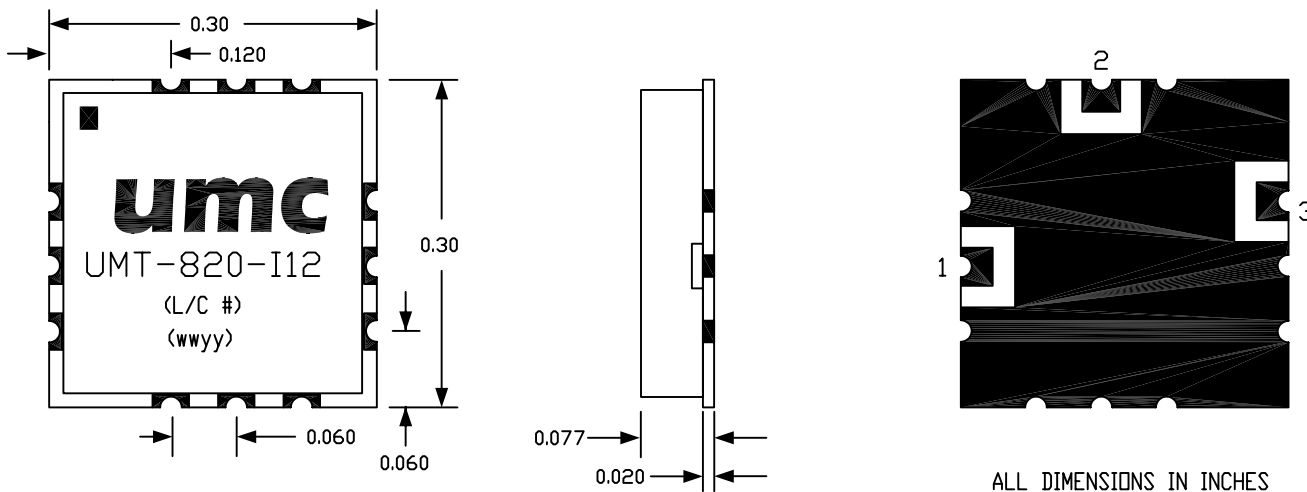




CONFIDENTIAL

Operating Temperature Range	-40 to +85 degrees C
Storage Temperature Range	-55 to +125 degrees C
Vcc Voltage, Vdc	+3.3
Vtune Voltage, Vdc	+3.0
DC Voltage applied to RF out	+/- 25

TABLE 1.1, ABSOLUTE MAXIMUM RATINGS



CONTACT ASSIGNMENTS	
1: RF OUT	
2: SUPPLY INPUT	
3: TUNING VOLTAGE INPUT	
ALL OTHER CONTACTS ARE GROUND	

TABLE 1.2, CONTACT ASSIGNMENTS

Unless otherwise specified, dimensions are in inches Universal Microwave Corporation Proprietary Document	Universal Microwave Corp. SPECIFICATION CONTROL DRAWING FOR UMT-820-I12			
	Prepared by: A.BYRD 8/18/05 Engineer:	SIZE A	FSCM NO.	DWG NO. UP-820
Universal Microwave Corporation 2339 Destiny Way Odessa, FL 33556	SCALE: N/A		SHEET 1 OF 2	

	MIN.	TYP.	MAX.
Frequency, MHz	3750		3940
Power Output, dBm	-10.0	-5.0	0
Harmonics, dBc		-15	-10
SSB Phase Noise, dBc/Hz:			
@ Offset = 1kHz		-60	-55
@ Offset = 10kHz		-86	-81
@ Offset = 100kHz		-106	-101
@ Offset = 1MHz		-126	-121
@ Offset = 10MHz		-146	-141
Pushing, MHz/V		6.0	12.0
Pulling, MHz p-p, @12dBr, all phases		TBD	TBD
Tuning Voltage, Vdc	+0.3		+2.5
Tuning Sensitivity, MHz/V		170	
Frequency drift with temperature:			
@ -40°C, MHz		25	
@ +85°C, MHz		25	
Supply Voltage, Vdc	+2.7	+2.8	+3.0
Supply Current, mA		13	
Output Power @ $V_t = 0$ and 3V	-10.0		
Tuning Port Capacitance, pF		10	
3dB Modulation Bandwidth, kHz		10000	

TABLE 1.3 ELECTRICAL SPECIFICATIONS

SPECIFICATION CONTROL DRAWING			
Drawing No. UMT-820-I12			
Size	A	REV	A
Engineer: T.KRAUS 8/18/05		SHEET 2 OF 2	