



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	+5.0
DC Voltage applied to RF out	+/- 25

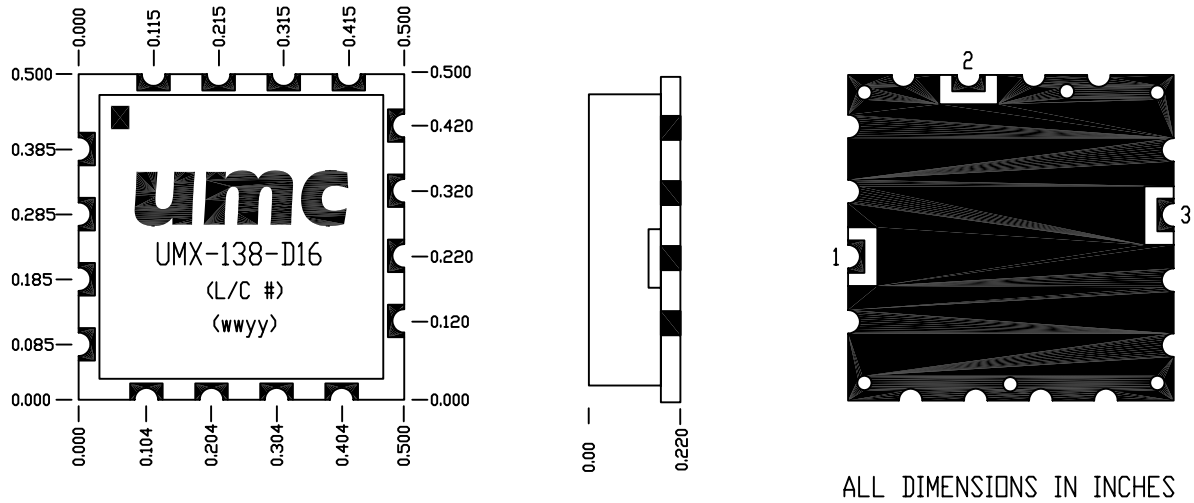


TABLE 1.2, CONTACT ASSIGNMENTS

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 Information
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Universal Microwave Corp.

SPECIFICATION CONTROL
 DRAWING FOR UMX-138-D16

SIZE A	FSCM NO.	DWG NO. UP-138	REV A
SCALE N/A		SHEET 1 OF 2	

	MIN.	TYP.	MAX.
Frequency, MHz		1981	
Power Output, dBm	+5.0	+7.0	+9.0
Harmonics, dBc		-20	-10
SSB Phase Noise, dBc/Hz:			
@ Offset = 1kHz		-96	-90
@ Offset = 10kHz		-121	-116
@ Offset = 100kHz		-141	-136
@ Offset = 1MHz		-161	-155
@ Offset = 10MHz		-164	-159
Pushing, MHz/V		0.1	0.3
Pulling, MHz p-p, @12dB _r , all phases		2.0	4.0
Tuning Voltage, Vdc	+0.5		+4.5
Tuning Sensitivity, MHz/V		6	
Frequency drift with temperature:			
@ -40°C, MHz		1	2
@ +85°C, MHz		1	2
Supply Voltage, Vdc		+8.0	
Supply Current, mA		27	
Output Power @ $V_t = 0$ and 5V	+4.0		
Tuning Port Capacitance, pF		47	
3dB Modulation Bandwidth, kHz		10000	

TABLE 1.3 ELECTRICAL SPECIFICATIONS

SPECIFICATION CONTROL DRAWING			
Drawing No. UMX-138-D16			
Size	A	REV	A
Engineer: T.KRAUS 9/5/05		SHEET 2 OF 2	