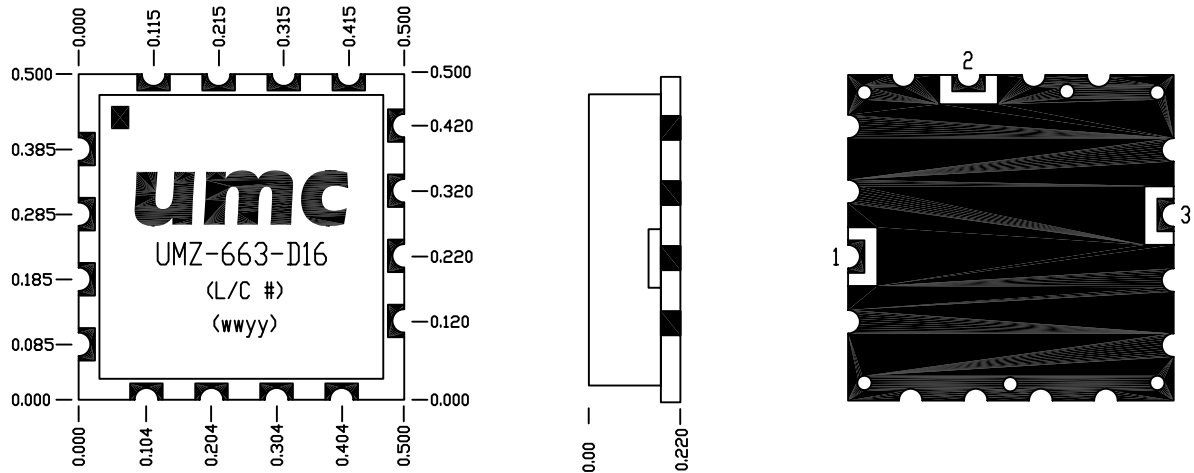




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TABLE 1.1, ABSOLUTE MAXIMUM RATINGS

Operating Temperature Range	-40 to +85 degrees C
Storage Temperature Range	-55 to +125 degrees C
Vcc Voltage, Vdc	+9.0
Vtune Voltage, Vdc	+5.5
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 Information
 Prepared by: A.BYRD 9/14/05
 Engineer:
 Universal Microwave Corporation
 2339 Destiny Way
 Odessa, FL 33556

Universal Microwave Corp.

SPECIFICATION CONTROL
 DRAWING FOR UMZ-663-D16

SIZE A	FSCM NO.	DWG NO. UP-663	REV A
SCALE N/A		SHEET 1 OF 2	

	MIN.	TYP.	MAX.
Frequency, MHz	390		520
Power Output, dBm	+5.5	+8.0	+10.5
Harmonics, dBc		-15	-9
SSB Phase Noise, dBc/Hz:			
@ Offset = 1kHz		-82	-75
@ Offset = 10kHz		-107	-102
@ Offset = 100kHz		-127	-122
@ Offset = 1MHz		-147	-142
@ Offset = 10MHz		-164	-159
Pushing, MHz/V		1	2
Pulling, MHz p-p, @12dB _r , all phases		1	1.5
Tuning Voltage, Vdc	0		+5.0
Tuning Sensitivity, MHz/V		32	
Frequency drift with temperature:			
@ -40°C, MHz		3.5	5
@ +85°C, MHz		3.5	5
Supply Voltage, Vdc		+8.0	
Supply Current, mA		29	31
Output Power @ $V_t = 0$	+5.5		
Tuning Port Capacitance, pF		220	
3dB Modulation Bandwidth, kHz		500	

TABLE 1.3 ELECTRICAL SPECIFICATIONS

SPECIFICATION CONTROL DRAWING			
Drawing No. UMZ-663-D16			
Size	A	REV	A
Engineer: T.KRAUS 9/14/05		SHEET 2 OF 2	