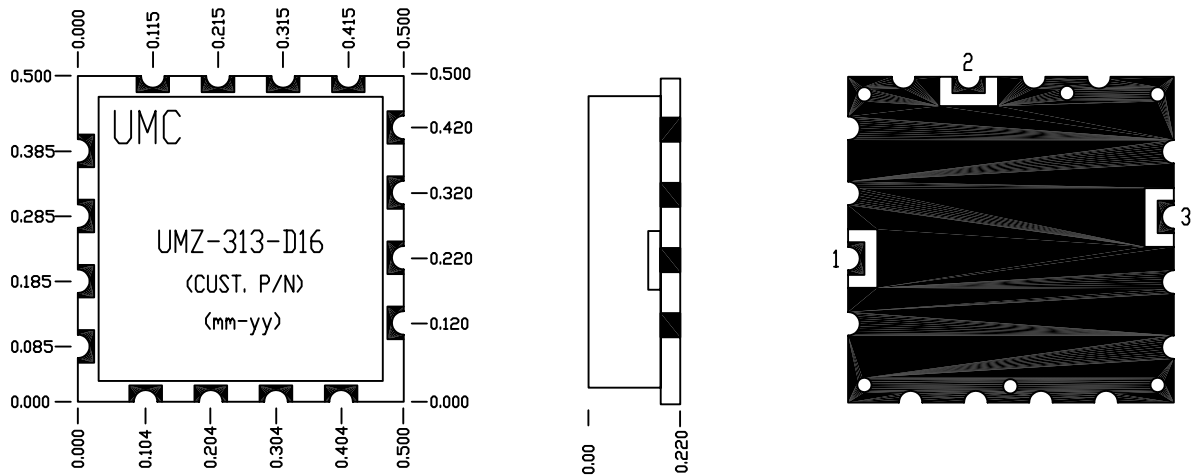


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TABLE 1.1, ABSOLUTE MAXIMUM RATINGS

Operating Temperature Range	-40 to +85 degrees C
Storage Temperature Range	-55 to +125 degrees C
Vcc Voltage, Vdc	+5.5
Vtune Voltage, Vdc	+13.0
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

Universal Microwave Corporation  
Proprietary Information

Prepared by: M.BANKS 11/10/04

Engineer:

Universal Microwave Corporation  
2339 Destiny Way  
Odessa, FL 33556

Universal Microwave Corp.

SPECIFICATION CONTROL  
DRAWING FOR UMZ-313-D16

SIZE  
A

FSCM NO.

DWG NO.

UP-313

REV  
A

SCALE: N/A

SHEET 1 OF 2

	MIN.	TYP.	MAX.
Frequency, MHz	493		602
Power Output, dBm	+3.0	+5.0	+7.0
Harmonics, dBc		-15	-10
SSB Phase Noise, dBc/Hz:			
@ Offset = 1kHz		-90	-85
@ Offset = 10kHz		-116	-111
@ Offset = 100kHz		-136	-131
@ Offset = 1MHz		-156	-151
@ Offset = 10MHz		-160	-155
Pushing, MHz/V		0.5	1
Pulling, MHz p-p, @12dB <sub>r</sub> , all phases		1	2
Tuning Voltage, Vdc	+2.0		+12.0
Tuning Sensitivity, MHz/V		13	
Frequency drift with temperature:			
@ -40°C, MHz		2	4
@ +85°C, MHz		2	4
Supply Voltage, Vdc		+5.0	
Supply Current, mA		20	25
Output Power @ $V_t = 0$ and 12V	0		
Tuning Port Capacitance, pF		100	
3dB Modulation Bandwidth, kHz		1000	

TABLE 1.3 ELECTRICAL SPECIFICATIONS

<b>SPECIFICATION CONTROL DRAWING</b>			
Drawing No. UMZ-313-D16			
Size	A	REV	A
Engineer: PJE 11/10/04		SHEET 2 OF 2	