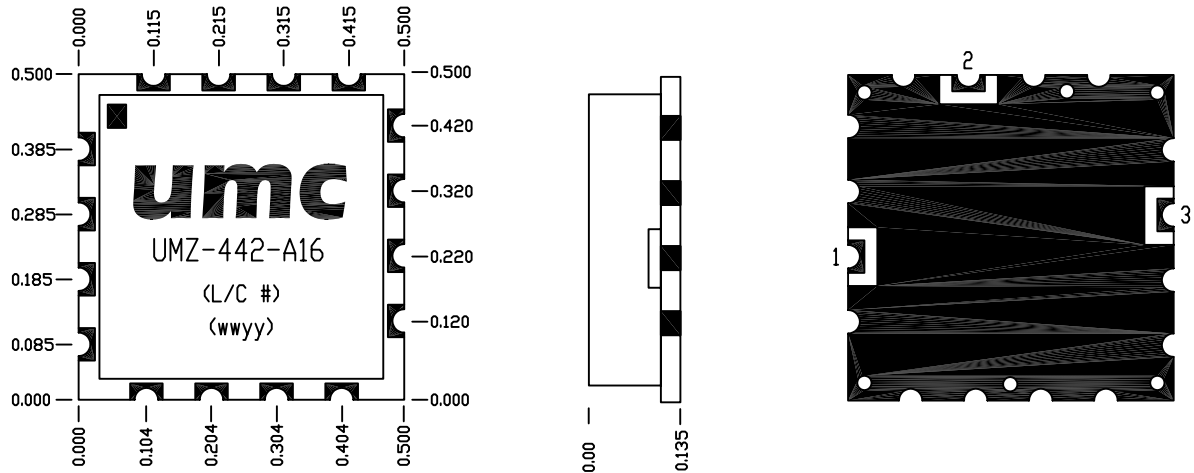




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TABLE 1.1, ABSOLUTE MAXIMUM RATINGS

Operating Temperature Range	-40 to +85 degrees C
Storage Temperature Range	-55 to +125 degrees C
Vcc Voltage, Vdc	+9.0
Vtune Voltage, Vdc	+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
TOLERANCES
 .X = +/- .1
 .XX = +/- .01
 .XXX = +/- .005
 ANG = +/- 2°
 Universal Microwave Corporation
 Proprietary Information
 Prepared by: A.BYRD 9/9/05
 Engineer:
 Universal Microwave Corporation
 2339 Destiny Way
 Odessa, FL 33556

Universal Microwave Corp.

SPECIFICATION CONTROL
 DRAWING FOR UMZ-442-A16

SIZE A	FSCM NO.	DWG NO. UP-442	REV A
SCALE N/A		SHEET 1 OF 2	

	MIN.	TYP.	MAX.
Frequency, MHz	658		757
Power Output, dBm	+3.0	+5.0	+7.0
Harmonics, dBc		-20	-10
SSB Phase Noise, dBc/Hz:			
@ Offset = 1kHz		-90	-85
@ Offset = 10kHz		-115	-110
@ Offset = 100kHz		-125	-120
@ Offset = 1MHz		-145	-140
@ Offset = 10MHz		-160	-150
Pushing, MHz/V		0.2	0.5
Pulling, MHz p-p, @12dBr, all phases		1	3
Tuning Voltage, Vdc	+1.0		+12.0
Tuning Sensitivity, MHz/V		13	
Frequency drift with temperature:			
@ -40°C, MHz		1	3
@ +85°C, MHz		1	3
Supply Voltage, Vdc		+8.0	
Supply Current, mA		27	
Output Power @ $V_t = 0$ and 12V	0		
Tuning Port Capacitance, pF		47	
3dB Modulation Bandwidth, kHz		1000	

TABLE 1.3 ELECTRICAL SPECIFICATIONS

SPECIFICATION CONTROL DRAWING			
Drawing No. UMZ-442-A16			
Size	A	REV	A
Engineer: T.KRAUS 9/9/05		SHEET 2 OF 2	