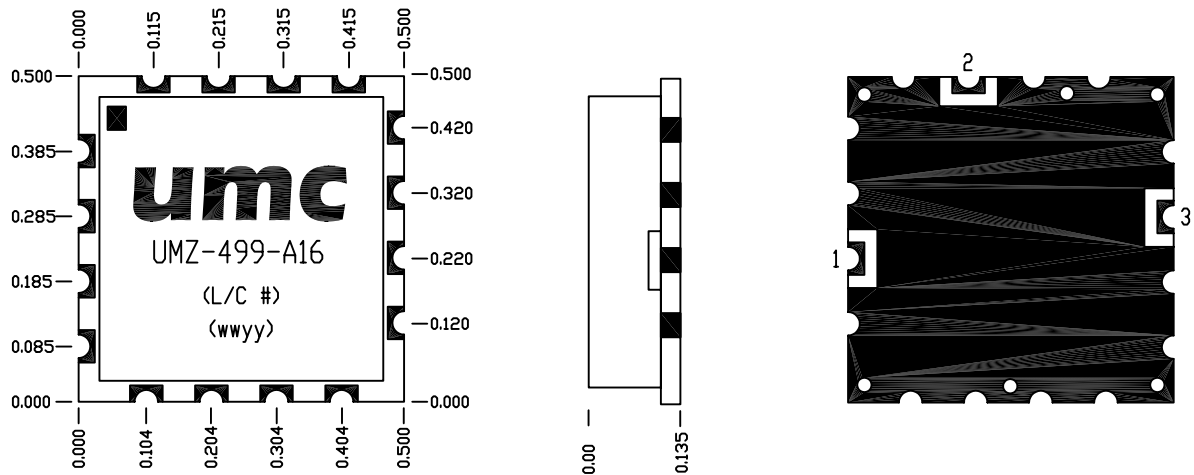




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TABLE 1.1, ABSOLUTE MAXIMUM RATINGS

Operating Temperature Range	-40 to +85 degrees C
Storage Temperature Range	-55 to +125 degrees C
Vcc Voltage, Vdc	+5.5
Vtune Voltage, Vdc	+5.0
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:
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 2339 Destiny Way
 Odessa, FL 33556

Universal Microwave Corp.

SPECIFICATION CONTROL
 DRAWING FOR UMZ-499-A16

SIZE A	FSCM NO.	DWG NO. UP-499	REV A
SCALE N/A		SHEET 1 OF 2	

	MIN.	TYP.	MAX.
Frequency, MHz		748	
Power Output, dBm	-2.0	0	+2.0
Harmonics, dBc		-20	-10
SSB Phase Noise, dBc/Hz:			
@ Offset = 1kHz		-93	-98
@ Offset = 10kHz		-118	-113
@ Offset = 100kHz		-138	-133
@ Offset = 1MHz		-158	-153
@ Offset = 10MHz		-164	-159
Pushing, MHz/V		0.2	1
Pulling, MHz p-p, @12dB _r , all phases		1	3
Tuning Voltage, Vdc	+0.5		+4.5
Tuning Sensitivity, MHz/V		10	
Frequency drift with temperature:			
@ -40°C, MHz		2.5	3.5
@ +85°C, MHz		2	3
Supply Voltage, Vdc		+5.0	
Supply Current, mA		25	
Output Power @ $V_t = 0$ and 5V	-3.0		
Tuning Port Capacitance, pF		47	
3dB Modulation Bandwidth, kHz		1000	

TABLE 1.3 ELECTRICAL SPECIFICATIONS

SPECIFICATION CONTROL DRAWING			
Drawing No. UMZ-499-A16			
Size	A	REV	A
Engineer: T.KRAUS 9/9/05		SHEET 2 OF 2	