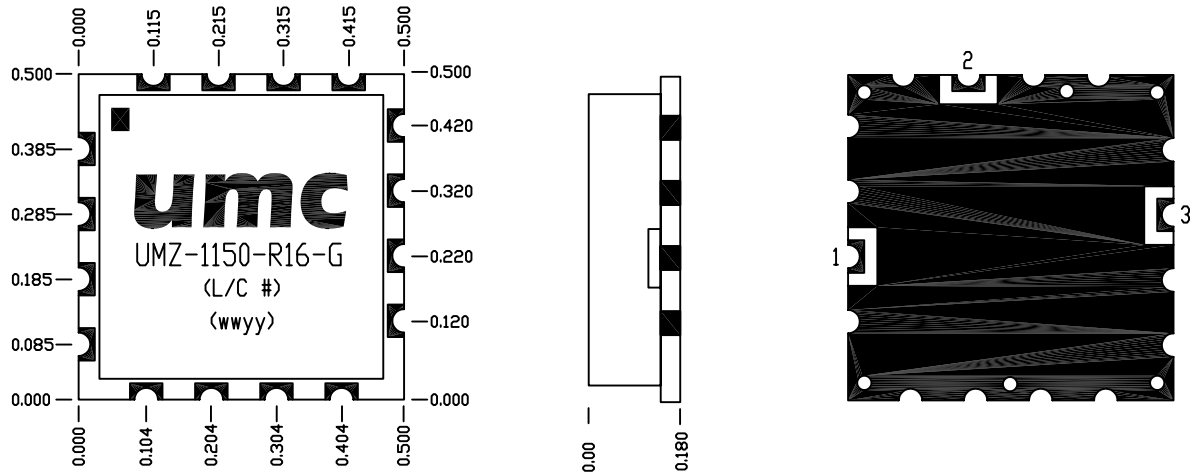




CONFIDENTIAL

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	+5.2
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 11/3/05
 Engineer:
 Universal Microwave Corporation
 2339 Destiny Way
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Universal Microwave Corp.

SPECIFICATION CONTROL
 DRAWING FOR UMZ-1150-R16-G

SIZE A	FSCM NO.	DWG NO. UP-1150	REV A
SCALE N/A		SHEET 1 OF 2	

	MIN.	TYP.	MAX.
Frequency, MHz	435		451
Power Output, dBm	-2.0	0	2.0
Harmonics, dBc		-15	-12
SSB Phase Noise, dBc/Hz:			
@ Offset = 1kHz		-95	-90
@ Offset = 10kHz		-120	-115
@ Offset = 100kHz		-140	-135
@ Offset = 1MHz		-160	-155
@ Offset = 10MHz			
Pushing, MHz/V		0.1	0.2
Pulling, MHz p-p, @12dB _r , all phases		0.2	0.3
Tuning Voltage, Vdc	+0.5		+4.5
Tuning Sensitivity, MHz/V	6	8	10
Frequency drift with temperature:			
@ -40°C, MHz		1.0	2.0
@ +85°C, MHz		1.0	2.0
Supply Voltage, Vdc	4.5	4.7	4.9
Supply Current, mA		15	20
Output Power @ $V_t = 0$ and 5V	0		
Tuning Port Capacitance, pF		100	
3dB Modulation Bandwidth, kHz		1000	

TABLE 1.3 ELECTRICAL SPECIFICATIONS

SPECIFICATION CONTROL DRAWING			
Drawing No. UMZ-1150-R16-G			
Size	A	REV	A
Engineer:	PJE 11/3/05	SHEET 2 OF 2	