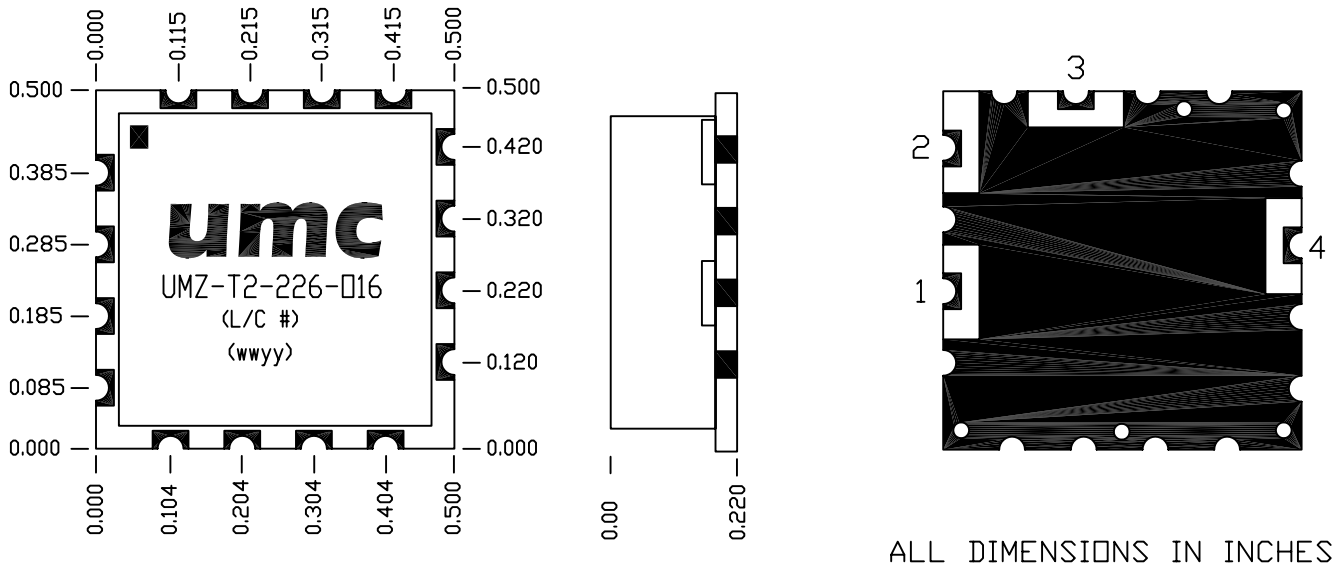




CONFIDENTIAL

Operating Temperature Range	-40 to +85 degrees C
Storage Temperature Range	-55 to +125 degrees C
Vcc Voltage, Vdc	+5.5
Vtune Voltage, Vdc	+12.0
DC Voltage applied to PIN 1	+/- 25
DC Voltage applied to PIN 2	+/- 5

TABLE 1.1, ABSOLUTE MAXIMUM RATINGS



ALL DIMENSIONS IN INCHES

1: RF OUT	
2: 1/2 FREQUENCY SAMPLE	
3: SUPPLY VOLTAGE INPUT	
4: TUNING VOLTAGE INPUT	
ALL OTHER CONTACTS ARE GROUND	

TABLE 1.2, CONTACT ASSIGNMENTS

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 7/28/05  
 Engineer:  
 Universal Microwave Corporation  
 2339 Destiny Way  
 Odessa, FL 33556

Universal Microwave Corp.  
 SPECIFICATION CONTROL  
 DRAWING FOR UMZ-T2-226-016

SIZE A	FSCM NO.	DWG NO. UP-226	REV A
SCALE N/A		SHEET 1 OF 2	

	<b>MIN.</b>	<b>TYP.</b>	<b>MAX.</b>
<b>Frequency, MHz</b>	<b>4700</b>		<b>5118</b>
<b>Power Output, dBm</b>	<b>-3.0</b>	<b>0</b>	<b>+3.0</b>
<b>1/2 Frequency Sample Power Output, dBm</b>	<b>-10</b>	<b>-5</b>	<b>0</b>
<b>Sub-Harmonics, dBc</b>		<b>-25</b>	<b>-15</b>
<b>SSB Phase Noise, dBc/Hz:</b>			
<b>@ Offset = 1kHz</b>		<b>-70</b>	<b>-65</b>
<b>@ Offset = 10kHz</b>		<b>-96</b>	<b>-91</b>
<b>@ Offset = 100kHz</b>		<b>-116</b>	<b>-111</b>
<b>@ Offset = 1MHz</b>		<b>-136</b>	<b>-131</b>
<b>@ Offset = 10MHz</b>		<b>-156</b>	<b>-151</b>
<b>Pushing, MHz/V</b>		<b>4.0</b>	<b>6.0</b>
<b>Pulling, MHz p-p, @12dBr, all phases</b>		<b>1.0</b>	<b>2.0</b>
<b>Tuning Voltage, Vdc</b>	<b>+1.0</b>		<b>+11.0</b>
<b>Tuning Sensitivity, MHz/V</b>		<b>50</b>	
<b>Frequency drift with temperature:</b>			
<b>@ -40°C, MHz</b>		<b>18</b>	
<b>@ +85°C, MHz</b>		<b>18</b>	
<b>Supply Voltage, Vdc</b>		<b>+5.0</b>	
<b>Supply Current, mA</b>		<b>50</b>	<b>53</b>
<b>Output Power @ <math>V_t = 0</math> and 12V</b>	<b>-4.0</b>		
<b>Tuning Port Capacitance, pF</b>		<b>47</b>	
<b>3dB Modulation Bandwidth, kHz</b>		<b>1000</b>	

**TABLE 1.3 ELECTRICAL SPECIFICATIONS**

<b>SPECIFICATION CONTROL DRAWING</b>			
<b>Drawing No. UMZ-T2-226-O16</b>			
Size	<b>A</b>	REV	<b>A</b>
Engineer: T. Kraus 7/29/05		SHEET 2 OF 2	