

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	+5.25
Vtune Voltage, Vdc	+5.0
DC Voltage applied to RF out	+/- 25

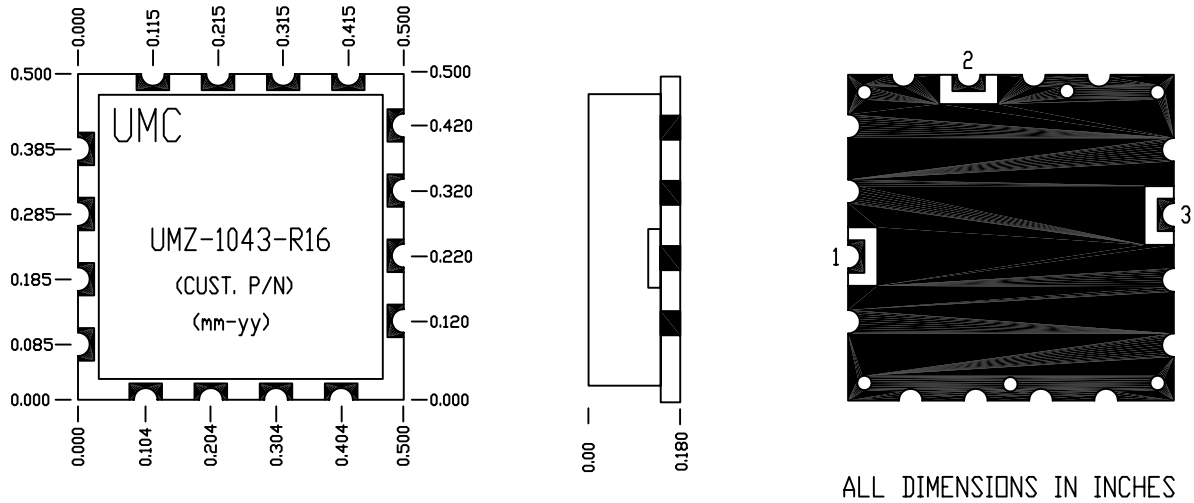


TABLE 1.2, CONTACT ASSIGNMENTS

CONTACT ASSIGNMENTS:	
1: RF OUT	
2: SUPPLY INPUT	
3: TUNING VOLTAGE INPUT	
ALL OTHER CONTACTS ARE GROUND	

<p>Unless otherwise specified, dimensions are in inches</p> <p>Universal Microwave Corporation Proprietary Document</p> <p>Prepared by: M.BANKS 2/10/04</p> <p>Engineer:</p> <p>Universal Microwave Corporation 2339 Destiny Way Dadeville, FL 33556</p>	<h2 style="margin: 0;">Universal Microwave Corp.</h2> <h3 style="margin: 0;">SPECIFICATION CONTROL DRAWING FOR UMZ-1043-R16</h3>						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">SIZE A</td> <td style="width: 35%;">FSCM NO.</td> <td style="width: 35%;">DWG NO. UP-1043</td> <td style="width: 15%;">REV A</td> </tr> </table>	SIZE A	FSCM NO.	DWG NO. UP-1043	REV A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">SCALE: N/A</td> <td style="width: 50%;">SHEET 1 OF 2</td> </tr> </table>	SCALE: N/A	SHEET 1 OF 2
SIZE A	FSCM NO.	DWG NO. UP-1043	REV A				
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	MIN.	TYP.	MAX.
Frequency, MHz	405		425
Power Output, dBm	-2.0	0	+2.5
Harmonics, dBc	--	-14	-10
SSB Phase Noise, dBc/Hz			
@ Offset = 1kHz	--	-99	-94
@ Offset = 10kHz	--	-121	-116
@ Offset = 100kHz	--	-141	-136
@ Offset = 1MHz	--	-161	-155
@ Offset = 10MHz	--	-164	-155
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	--	8	--
Frequency drift with temperature			
@ -40 degrees C, MHz	--	1.2	--
@ +85 degrees C, MHz	--	1.2	--
Supply Voltage, Vdc	--	+4.75	--
Supply Current, mA _{dc}	--	15	--
Output Power @ V _{tune} = 0 and 5V	-2.5	--	--
Tuning Port Capacitance, pF	--	100	--
3dB Modulation Bandwidth, kHz	--	1000	--

TABLE 1.0, ELECTRICAL SPECIFICATIONS

Unless otherwise specified,
dimensions are in inches

Universal Microwave Corporation
Proprietary Document

Prepared by: M.BANKS 2/10/04

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Universal Microwave Corp.
SPECIFICATION CONTROL
DRAWING FOR UMZ-1043-R16

SIZE A	FSCM NO.	DWG NO. UP-1043	REV A
SCALE: N/A		SHEET 1 OF 2	