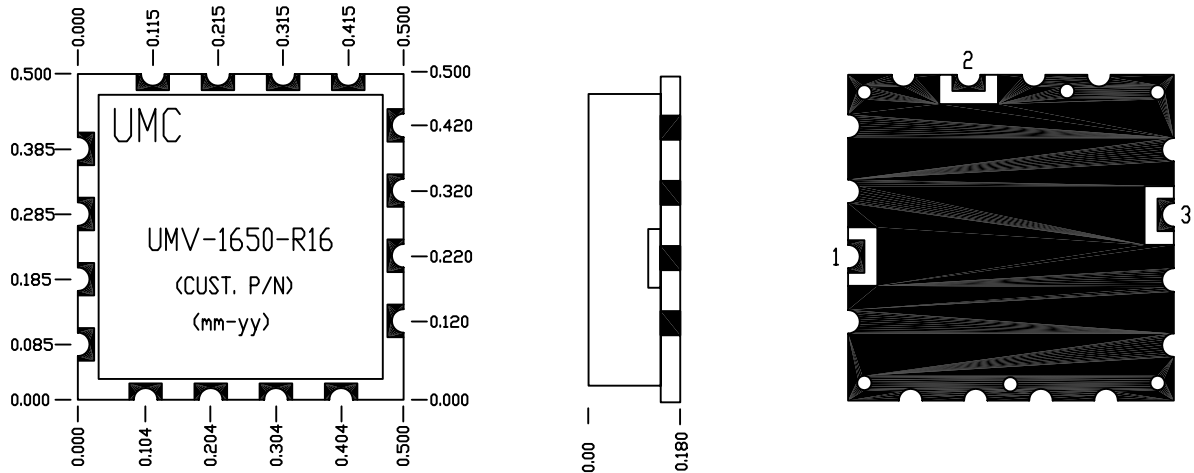


# CONFIDENTIAL

TABLE 1.1, ABSOLUTE MAXIMUM RATINGS

Operating Temperature Range	-40 to +85 degrees C
Storage Temperature Range	-55 to +100 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

Universal Microwave Corporation  
Proprietary Document

Prepared by: M.BANKS 11/26/03

Engineer:

Universal Microwave Corporation  
2339 Destiny Way  
Dolessa, FL 33556

## Universal Microwave Corp.

### SPECIFICATION CONTROL DRAWING FOR UMV-1650-R16

SIZE  
A

FSCM NO.

DWG NO.

UP-765

REV  
A

SCALE: N/A

SHEET 1 OF 2

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	MIN.	TYP.	MAX.
Frequency, MHz	1600		1700
Power Output, dBm	-2.5	0	+2.5
Harmonics, dBc	--	-20	-10
SSB Phase Noise, dBc/Hz			
@ Offset = 1kHz	--	-81	-76
@ Offset = 10kHz	--	-108	-103
@ Offset = 100kHz	--	-128	-123
@ Offset = 1MHz	--	-148	-143
@ Offset = 10MHz	--	-164	-159
Pushing, MHz/V	--	1	2
Pulling, MHz p-p, @12dB <sub>r</sub> , all phases	--	1	2
Tuning Voltage, Vdc	0.5		4.5
Tuning Sensitivity, MHz/V	--	36	--
Frequency drift with temperature			
@ -40 degrees C, MHz	--	6	10
@ +85 degrees C, MHz	--	6	10
Supply Voltage, Vdc	--	+5.0	--
Supply Current, mA <sub>dc</sub>	--	27	32
Output Power @ V <sub>tune</sub> = 0 and 5V	-3.0	--	--
Tuning Port Capacitance, pF	--	47	--
3dB Modulation Bandwidth, kHz	--	1000	--

TABLE 1.0, ELECTRICAL SPECIFICATIONS

Unless otherwise specified, dimensions are in inches  Universal Microwave Corporation Proprietary Document	Universal Microwave Corp.		
	SPECIFICATION CONTROL DRAWING FOR UMV-1650-R16		
Prepared by: MBANKS 11/26/03	SIZE A	FSCM NO.	DWG NO. UP-765
Universal Microwave Corporation 2339 Destiny Way Odessa, FL 33556	SCALE: N/A		REV A
			SHEET 1 OF 2