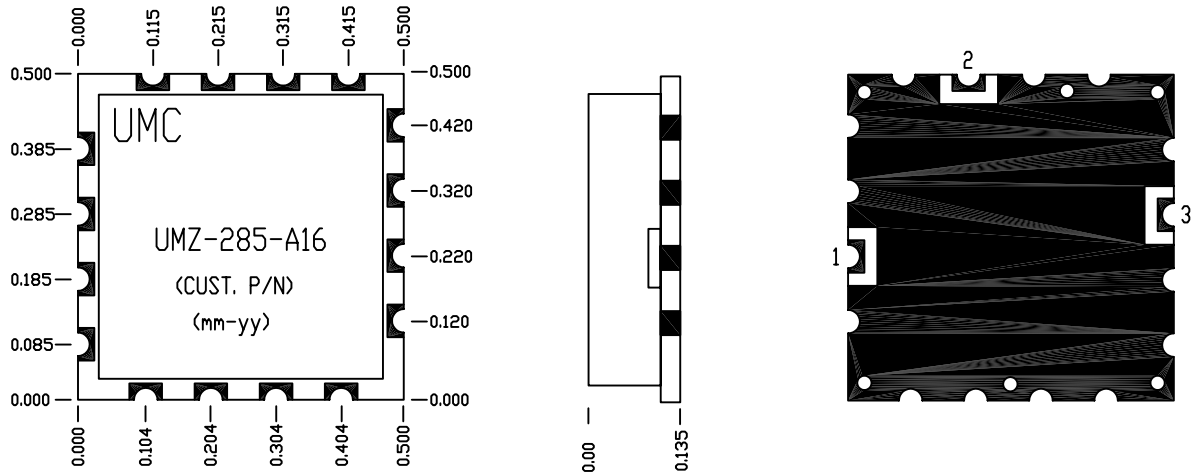


# CONFIDENTIAL

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 12/10/03

Engineer:

Universal Microwave Corporation  
2339 Destiny Way  
Dadeville, FL 33556

## Universal Microwave Corp.

### SPECIFICATION CONTROL DRAWING FOR UMZ-285-A16

SIZE  
A

FSCM NO.

DWG NO.

UP-285

REV  
A

SCALE: N/A

SHEET 1 OF 2

	MIN.	TYP.	MAX.
Frequency, MHz	698		722
Power Output, dBm	+2.5	+5.0	+7.5
Harmonics, dBc	--	-15	-10
SSB Phase Noise, dBc/Hz			
@ Offset = 1kHz	--	-90	-85
@ Offset = 10kHz	--	-115	-110
@ Offset = 100kHz	--	-135	-130
@ Offset = 1MHz	--	-155	-150
@ Offset = 10MHz	--	--	--
Pushing, MHz/V	--	0.5	1
Pulling, MHz p-p, @12dB <sub>r</sub> , all phases	--	1	2
Tuning Voltage, Vdc	0.5		4.5
Tuning Sensitivity, MHz/V	--	11	--
Frequency drift with temperature			
@ -40 degrees C, MHz	--	3	6
@ +85 degrees C, MHz	--	3	6
Supply Voltage, Vdc	--	+5.0	--
Supply Current, mA <sub>dc</sub>	--	27	30
Output Power @ V <sub>tune</sub> = 0 and 5V	+1.0	--	--
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 11/26/03

Universal Microwave Corporation  
2339 Destiny Way  
Odessa, FL 33556

Universal Microwave Corp.

SPECIFICATION CONTROL  
DRAWING FOR UMZ-285-A16

SIZE A	FSCM NO.	DWG NO. UP-285	REV A
SCALE: N/A		SHEET 1 OF 2	