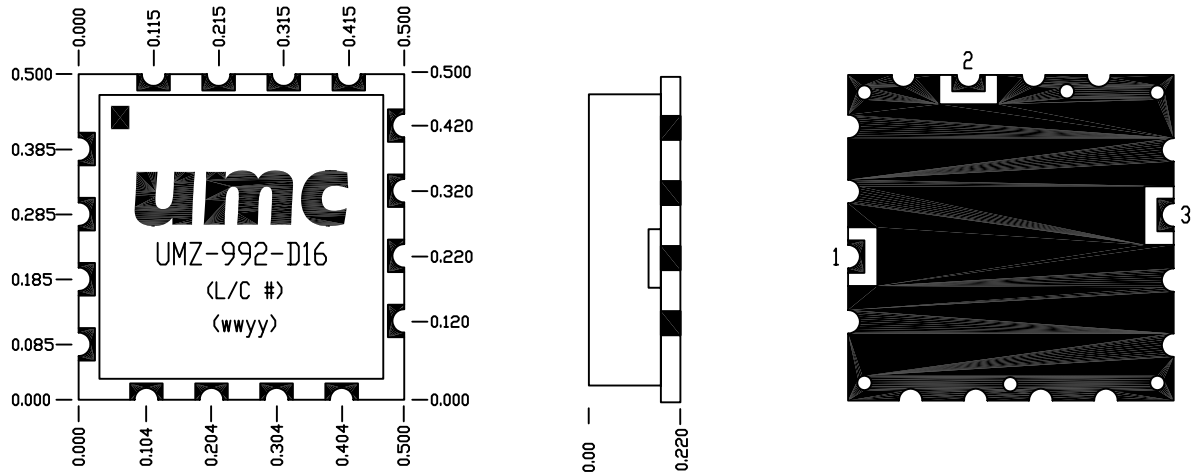




CONFIDENTIAL

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             | +9.0                  |
| Vtune Voltage, Vdc           | +19.0                 |
| 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 9/8/05  
 Engineer:  
 Universal Microwave Corporation  
 2339 Destiny Way  
 Odessa, FL 33556

Universal Microwave Corp.

SPECIFICATION CONTROL  
 DRAWING FOR UMZ-992-D16

|           |          |                   |          |
|-----------|----------|-------------------|----------|
| SIZE<br>A | FSCM NO. | DWG NO.<br>UP-992 | REV<br>A |
| SCALE N/A |          | SHEET 1 OF 2      |          |

|   | MIN. | TYP. | MAX.  |
|---|------|------|-------|
| Frequency, MHz                                    | 700  |      | 1000  |
| Power Output, dBm                                 | -2.0 | 0    | +2.0  |
| Harmonics, dBc                                    |      | -12  | -8    |
| SSB Phase Noise, dBc/Hz:                          |      |      |       |
| @ Offset = 1kHz                                   |      | -87  | -82   |
| @ Offset = 10kHz                                  |      | -112 | -107  |
| @ Offset = 100kHz                                 |      | -132 | -127  |
| @ Offset = 1MHz                                   |      | -152 | -147  |
| @ Offset = 10MHz                                  |      |      |       |
| Pushing, MHz/V                                    |      | 0.5  | 1.0   |
| Pulling, MHz p-p, @12dB <sub>r</sub> , all phases |      | 1.0  | 2.0   |
| Tuning Voltage, Vdc                               | +1.0 |      | +18.0 |
| Tuning Sensitivity, MHz/V                         |      | 20   |       |
| Frequency drift with temperature:                 |      |      |       |
| @ -40°C, MHz                                      |      | 5    | 8     |
| @ +85°C, MHz                                      |      | 5    | 8     |
| Supply Voltage, Vdc                               |      | +8.0 |       |
| Supply Current, mA                                |      | 28   |       |
| Output Power @ $V_t = 0$ and 18V                  | -2.0 |      |       |
| Tuning Port Capacitance, pF                       |      | 200  |       |
| 3dB Modulation Bandwidth, kHz                     |      | 5000 |       |

TABLE 1.3 ELECTRICAL SPECIFICATIONS

|                                      |   |              |   |
|--------------------------------------|---|--------------|---|
| <b>SPECIFICATION CONTROL DRAWING</b> |   |              |   |
| Drawing No. UMZ-992-D16              |   |              |   |
| Size                                 | A | REV          | A |
| Engineer: T.KRAUS 9/8/05             |   | SHEET 2 OF 2 |   |