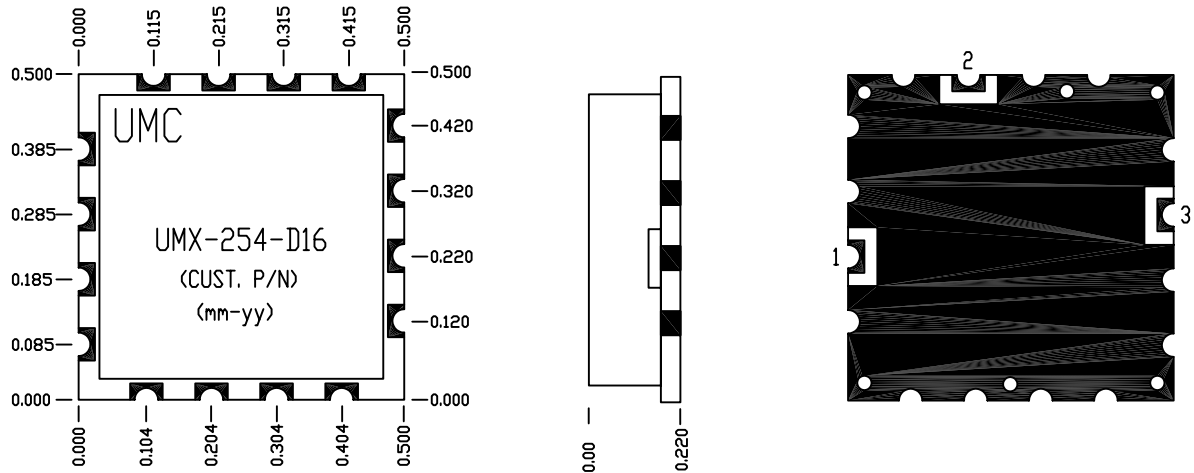




CONFIDENTIAL

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 | +5.5 |
| 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 Information

Prepared by: M.BANKS 3/7/05
Engineer:

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2339 Destiny Way
Odessa, FL 33556

Universal Microwave Corp.

SPECIFICATION CONTROL
DRAWING FOR UMX-254-D16

| | | | |
|-----------|----------|-------------------|----------|
| SIZE A | FSCM NO. | DWG NO. UP-254 | REV A |
|-----------|----------|-------------------|----------|

| | |
|-----------|--------------|
| SCALE N/A | SHEET 1 OF 2 |
|-----------|--------------|

| | MIN. | TYP. | MAX. |
|---|------|------|------|
| Frequency, MHz | 1800 | | 1900 |
| Power Output, dBm | +5.0 | +7.0 | +9.0 |
| Harmonics, dBc | | -20 | -15 |
| SSB Phase Noise, dBc/Hz: | | | |
| @ Offset = 1kHz | | -85 | -80 |
| @ Offset = 10kHz | | -109 | -106 |
| @ Offset = 100kHz | | -130 | -126 |
| @ Offset = 1MHz | | -147 | -144 |
| @ Offset = 1MHz | | -160 | -155 |
| Pushing, MHz/V | | 0.3 | 1 |
| Pulling, MHz p-p, @12dB _r , all phases | | 0.6 | 1.2 |
| Tuning Voltage, Vdc | 0 | | +4.5 |
| Tuning Sensitivity, MHz/V | | 36 | |
| Frequency drift with temperature: | | | |
| @ -40°C, MHz | | 2 | 4 |
| @ +85°C, MHz | | 2 | 4 |
| Supply Voltage, Vdc | | +5.0 | |
| Supply Current, mA | | 21 | |
| Output Power @ $V_t = 0$ and 5V | +4.0 | | |
| Tuning Port Capacitance, pF | | 47 | |
| 3dB Modulation Bandwidth, kHz | | 1000 | |

TABLE 1.3 ELECTRICAL SPECIFICATIONS

| | | | |
|--------------------------------------|---|--------------|---|
| SPECIFICATION CONTROL DRAWING | | | |
| Drawing No. UMX-254-D16 | | | |
| Size | A | REV | A |
| Engineer: T. Krau 3/7/05 | | SHEET 2 OF 2 | |