

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 |

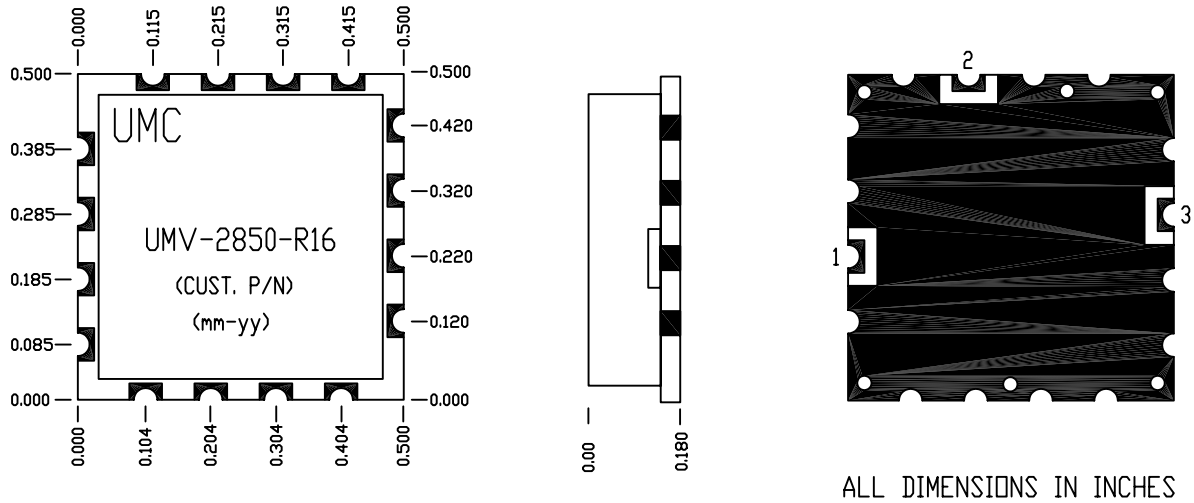


TABLE 1.2, CONTACT ASSIGNMENTS

| | |
|-------------------------------|--|
| 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

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Universal Microwave Corp.

SPECIFICATION CONTROL DRAWING FOR UMV-2850-R16

| | | | |
|------------|----------|-------------------|----------|
| SIZE A | FSCM NO. | DWG NO. UP-777 | REV A |
| SCALE: N/A | | SHEET 1 OF 2 | |

| | MIN. | TYP. | MAX. |
|---|------|------|------|
| Frequency, MHz | 2800 | | 2900 |
| Power Output, dBm | -2.5 | 0 | +2.5 |
| Harmonics, dBc | -- | -20 | -10 |
| SSB Phase Noise, dBc/Hz | | | |
| @ Offset = 1kHz | -- | -79 | -74 |
| @ Offset = 10kHz | -- | -104 | -99 |
| @ Offset = 100kHz | -- | -124 | -119 |
| @ Offset = 1MHz | -- | -144 | -139 |
| @ Offset = 10MHz | -- | -164 | -159 |
| Pushing, MHz/V | -- | 1 | 2 |
| Pulling, MHz p-p, @12dBr, all phases | -- | 1 | 2 |
| Tuning Voltage, Vdc | +0.5 | | +4.5 |
| Tuning Sensitivity, MHz/V | -- | 36 | -- |
| Frequency drift with temperature | | | |
| @ -40 degrees C, MHz | -- | 8 | 12 |
| @ +85 degrees C, MHz | -- | 8 | 12 |
| Supply Voltage, Vdc | -- | +5.0 | -- |
| Supply Current, mA _{dc} | -- | 27 | -- |
| Output Power @ V _{tune} = 0 and 4.5V | -2.0 | -- | -- |
| Tuning Port Capacitance, pF | -- | 47 | -- |
| 3dB Modulation Bandwidth, kHz | -- | 1000 | -- |

TABLE 1.0, ELECTRICAL SPECIFICATIONS

| | | | |
|---|---|----------|-------------------|
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| | SPECIFICATION CONTROL DRAWING FOR UMV-2850-R16 | | |
| Universal Microwave Corporation Proprietary Document | SIZE A | FSCM NO. | DWG NO. UP-777 |
| Prepared by: M.BANKS 1/21/04 | | | REV A |
| Universal Microwave Corporation 2339 Destiny Way Odessa, FL 33556 | SCALE: N/A | | SHEET 1 OF 2 |