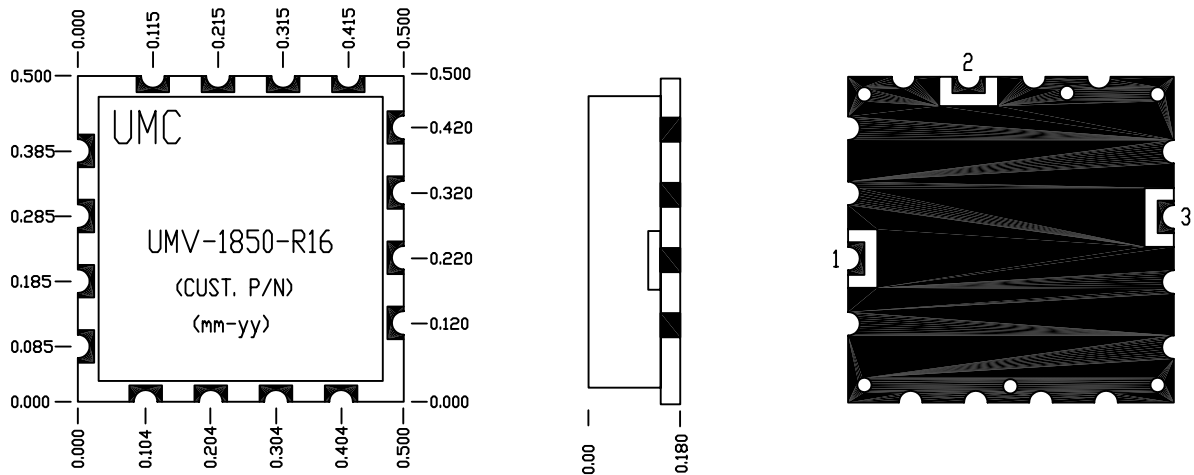


CONFIDENTIAL

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 Document

Prepared by: M.Banks 1/20/04
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2339 Destiny Way
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Universal Microwave Corp.

SPECIFICATION CONTROL DRAWING FOR UMV-1850-R16

| | | | |
|-----------|----------|-------------------|----------|
| SIZE A | FSCM NO. | DWG NO. UP-767 | REV A |
|-----------|----------|-------------------|----------|

SCALE: N/A

SHEET 1 OF 2

| | MIN. | TYP. | MAX. |
|---|------|------|------|
| Frequency, MHz | 1800 | | 1900 |
| Power Output, dBm | -2.5 | 0 | +2.5 |
| Harmonics, dBc | -- | -20 | -10 |
| SSB Phase Noise, dBc/Hz | | | |
| @ Offset = 1kHz | -- | -81 | -76 |
| @ Offset = 10kHz | -- | -107 | -102 |
| @ Offset = 100kHz | -- | -127 | -122 |
| @ Offset = 1MHz | -- | -147 | -142 |
| @ Offset = 10MHz | -- | -164 | -159 |
| Pushing, MHz/V | -- | 1 | 2 |
| Pulling, MHz p-p, @12dB _r , 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 _{dc} | -- | 26 | -- |
| Output Power @ V _{tune} = 0 and 4.5V | -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-1850-R16 | | | |
| | Prepared by: M.BANKS 1/20/04 | SIZE A | FSCM NO. | DWG NO. UP-767 |
| Universal Microwave Corporation 2339 Destiny Way Odessa, FL 33556 | SCALE: N/A | | SHEET 1 OF 2 | |