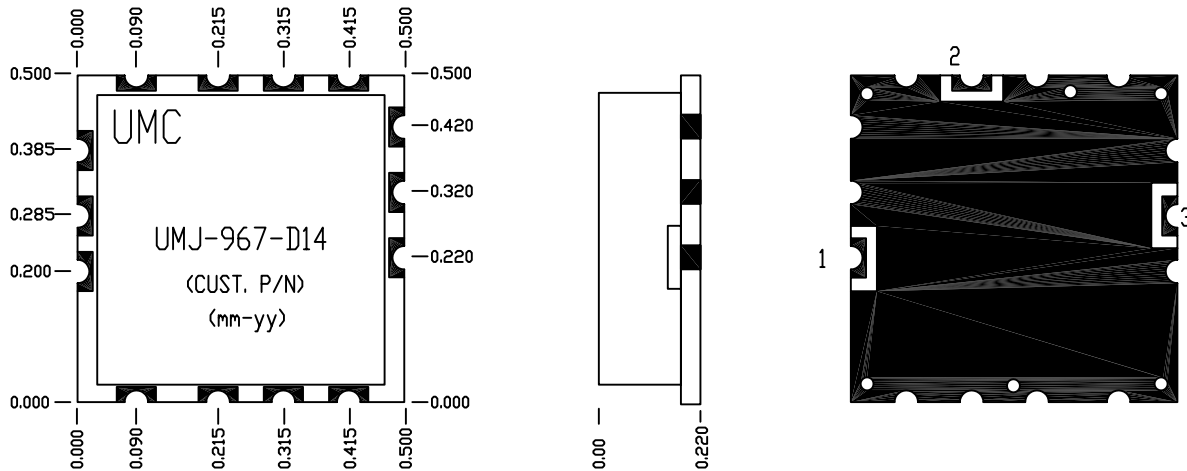


| | |
|------------------------------|-----------------------|
| Operating Temperature Range | -40 to +85 degrees C |
| Storage Temperature Range | -55 to +100 degrees C |
| Vcc Voltage, Vdc | +5.5 |
| Vtune Voltage, Vdc | +5.0 |
| DC Voltage applied to RF out | +/- 25 |

TABLE 1.1, ABSOLUTE MAXIMUM RATINGS



ALL DIMENSIONS IN INCHES

| CONTACT ASSIGNMENTS | |
|-------------------------------|--|
| 1. RF OUT | |
| 2. SUPPLY VOLTAGE | |
| 3. TUNING VOLTAGE INPUT | |
| ALL OTHER CONTACTS ARE GROUND | |

TABLE 1.2, CONTACT ASSIGNMENTS

| | | | | |
|--|---|-----------|--------------|-------------------|
| Unless otherwise specified, dimensions are in inches Universal Microwave Corporation Proprietary Document | Universal Microwave Corp. SPECIFICATION CONTROL DRAWING FOR UMJ-967-D14 | | | |
| | Prepared by: M.BANKS 09/18/03 Engineer: | SIZE A | FSCM NO. | DWG NO. UP-967 |
| Universal Microwave Corporation 2339 Destiny Way Odessa, FL 33556 | SCALE: N/A | | SHEET 1 OF 2 | |

CONFIDENTIAL

| | MIN. | TYP. | MAX. |
|---|------|------|-------|
| Frequency, MHz | 180 | -- | 190 |
| Power Output, dBm | +7.0 | +9.0 | +11.0 |
| Harmonics, dBc | -- | -25 | -20 |
| SSB Phase Noise, dBc/Hz | | | |
| @ Offset = 1kHz | -- | -103 | -98 |
| @ Offset = 10kHz | -- | -128 | -123 |
| @ Offset = 100kHz | -- | -148 | -143 |
| @ Offset = 1MHz | -- | -164 | -159 |
| @ Offset = 10MHz | -- | -- | -- |
| Pushing, MHz/V | -- | 0.2 | 0.4 |
| Pulling, MHz p-p, @12dB _r , all phases | -- | 0.2 | 0.4 |
| Tuning Voltage, Vdc | 0.5 | -- | 4.5 |
| Tuning Sensitivity, MHz/V | -- | 3.6 | -- |
| Frequency drift with temperature | | | |
| @ -40 degrees C, MHz | -- | 0.8 | 1.2 |
| @ +85 degrees C, MHz | -- | 0.8 | 1.2 |
| Supply Voltage, Vdc | -- | 5.0 | -- |
| Supply Current, mA _{dc} | -- | 18 | 21 |
| Output Power @ V _{tune} = 0 and 4.5V | +7.0 | -- | -- |
| Tuning Port Capacitance, pF | -- | 330 | -- |
| 3dB Modulation Bandwidth, kHz | -- | 100 | -- |

TABLE 1.0, ELECTRICAL SPECIFICATIONS

| | | | |
|---|--|----------|-------------------|
| Unless otherwise specified, dimensions are in inches | Universal Microwave Corp. | | |
| | SPECIFICATION CONTROL DRAWING FOR UMJ-967-D14 | | |
| Universal Microwave Corporation Proprietary Document | SIZE A | FSCM NO. | DWG NO. UP-967 |
| Prepared by: M.BANKS 09/18/03 | | | REV A |
| Universal Microwave Corporation 2339 Destiny Way Odessa, FL 33556 | SCALE: N/A | | SHEET 2 OF 2 |