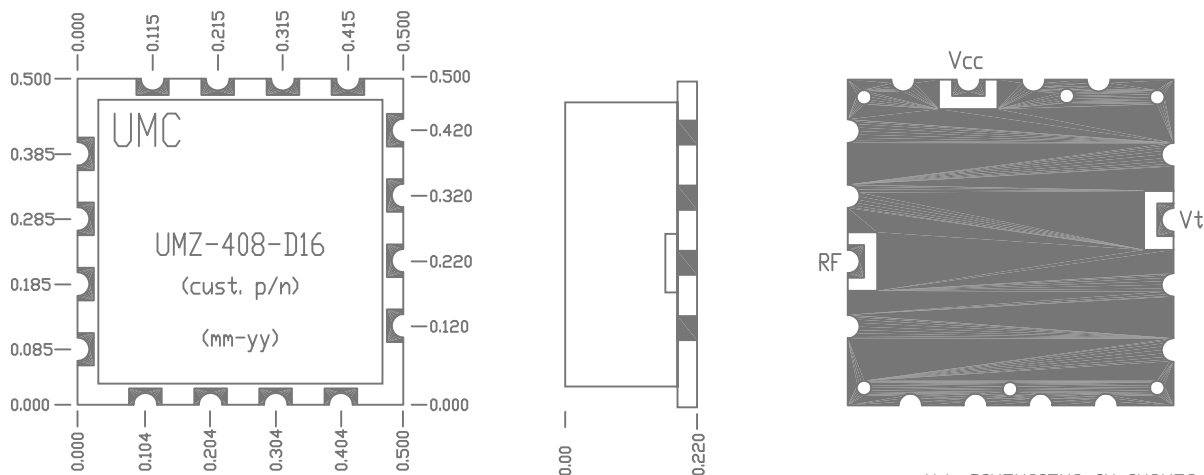


| REVISIONS | | | | |
|-----------|-----|-------------|------|----------|
| ZONE | REV | DESCRIPTION | DATE | APPROVED |
| | | | | |

| | |
|------------------------------|-----------------------|
| Operating Temperature Range | -40 to +85 degrees C |
| Storage Temperature Range | -55 to +125 degrees C |
| Vcc Voltage, Vdc | +6 |
| Vtune Voltage, Vdc | +10 |
| DC Voltage applied to RF out | +/- 25 |

TABLE 1.1, ABSOLUTE MAXIMUM RATINGS



ALL DIMENSIONS IN INCHES

| Contact Assignments: | |
|-------------------------------|--|
| 1: RF Out | |
| 2: Vcc | |
| 3: V-tune | |
| All other contacts are Ground | |

TABLE 1.2, CONTACT ASSIGNMENTS

| | | | | |
|---|--|----------|-------------------|----------|
| Unless otherwise specified, dimensions are in inches File =/P408/SOURCE/SCD1.DWG | Universal Microwave Corp. | | | |
| | SPECIFICATION CONTROL DRAWING FOR UMZ-408-D16 | | | |
| Prepared by: Jan Adams Date: 07-02-02 | SIZE A | FSCM NO. | DWG NO. UP-408 | REV X |
| Universal Microwave Corporation 2339 Destiny Way Odessa, FL 33556 | SCALE | | SHEET | |

| REVISIONS | | | | |
|-----------|-----|-------------|------|----------|
| ZONE | REV | DESCRIPTION | DATE | APPROVED |
| | | | | |

| | MIN. | TYP. | MAX. |
|---|------|------|------|
| Frequency, MHz | 500 | | 850 |
| Power Output, dBm | +2.5 | +5 | +7.5 |
| Harmonics, dBc | -- | -18 | -12 |
| SSB Phase Noise, dBc/Hz | | | |
| @ Offset = 1kHz | -- | -78 | -73 |
| @ Offset = 10kHz | -- | -103 | -98 |
| @ Offset = 100kHz | -- | -123 | -118 |
| @ Offset = 1MHz | -- | -143 | -138 |
| @ Offset = 10MHz | -- | -163 | -155 |
| Pushing, MHz/V | -- | 0.5 | 1 |
| Pulling, MHz p-p, @12dB _r , all phases | -- | 4 | 10 |
| Tuning Voltage, Vdc | 0.5 | | 8.5 |
| Tuning Sensitivity, MHz/V | -- | 55 | -- |
| Frequency drift with temperature | | | |
| @ -40 degrees C, MHz | -- | 5 | -- |
| @ +85 degrees C, MHz | -- | 5 | -- |
| Supply Voltage, Vdc | -- | 5 | -- |
| Supply Current, mA _{dc} | -- | 24 | -- |
| Output Power @ V _{tune} = 0 and 9V | +2.5 | -- | -- |
| Tuning Port Capacitance, pF | -- | 100 | -- |
| 3dB Modulation Bandwidth, kHz | -- | 1000 | -- |

TABLE 1.0, ELECTRICAL SPECIFICATIONS

Unless otherwise specified,
 dimensions are in inches
 File =/P408/SOURCE/SCD.DWG

Universal Microwave Corp.

SPECIFICATION CONTROL
 DRAWING FOR UMZ-408-D16

Prepared by: Jan Adams Date: 07-02-02

SIZE
A

FSCM NO.

DWG NO.

UP-408

REV
X

Universal Microwave Corporation
 2339 Destiny Way
 Odessa, FL 33556

SCALE

SHEET