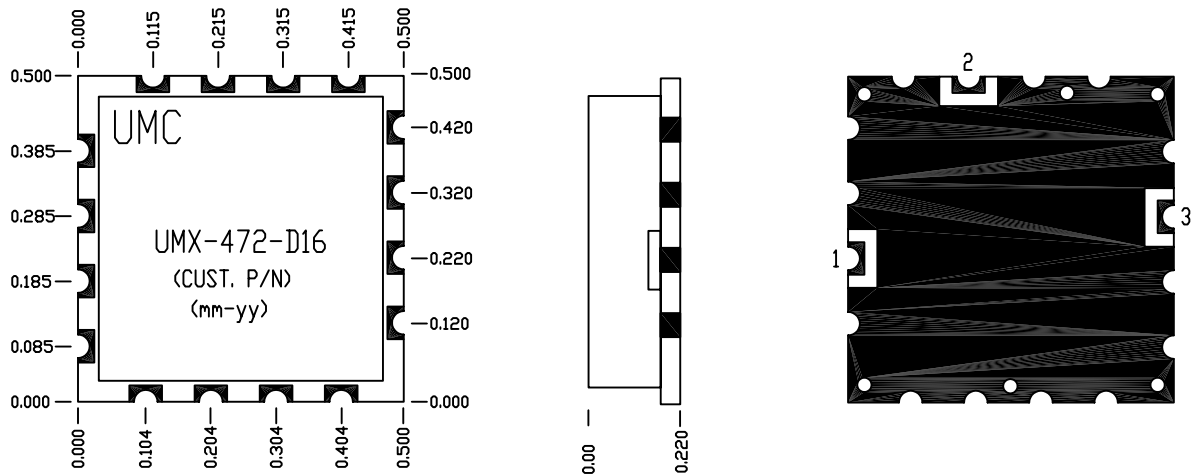


TABLE 1.1, ABSOLUTE MAXIMUM RATINGS

| | |
|------------------------------|-----------------------|
| Operating Temperature Range | -40 to +85 degrees C |
| Storage Temperature Range | -55 to +125 degrees C |
| Vcc Voltage, Vdc | +5.5 |
| Vtune Voltage, Vdc | +5.25 |
| 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 6/24/04
Engineer:

Universal Microwave Corporation
2339 Destiny Way
Odessa, FL 33556

Universal Microwave Corp.

SPECIFICATION CONTROL
DRAWING FOR UMX-472-D16

| | | | |
|-----------|----------|-------------------|----------|
| SIZE A | FSCM NO. | DWG NO. UP-472 | REV A |
|-----------|----------|-------------------|----------|

SCALE N/A

SHEET 1 OF 2

| | MIN. | TYP. | MAX. |
|---|-------|-------|-------|
| Frequency, MHz | 1445 | -- | 1800 |
| Power Output, dBm | +8.0 | +10.0 | +12.0 |
| Harmonics, dBc | -- | -20 | -15 |
| SSB Phase Noise, dBc/Hz | -- | -- | -- |
| @ Offset = 1kHz | -- | -77 | -72 |
| @ Offset = 10kHz | -- | -103 | -98 |
| @ Offset = 100kHz | -- | -123 | -118 |
| @ Offset = 1MHz | -- | -143 | -138 |
| @ Offset = 10MHz | -- | -160 | -155 |
| Pushing, MHz/V | -- | 1 | 3 |
| Pulling, MHz p-p, @12dBr, all phases | -- | 1 | 3 |
| Tuning Voltage, Vdc | +0.25 | | +4.75 |
| Tuning Sensitivity, MHz/V | -- | 90 | -- |
| Frequency drift with temperature | | | |
| @ -40 degrees C, MHz | -- | 10 | -- |
| @ +85 degrees C, MHz | -- | 10 | -- |
| Supply Voltage, Vdc | -- | +5.0 | -- |
| Supply Current, mA _{dc} | -- | 21 | -- |
| Output Power @ V _{tune} = 0 and 5V | +9.0 | -- | -- |
| Tuning Port Capacitance, pF | -- | 47 | -- |
| 3dB Modulation Bandwidth, kHz | -- | 1000 | -- |

TABLE 1.0, ELECTRICAL SPECIFICATIONS

| | | | |
|---|--|----------|-------------------|
| Unless otherwise specified, dimensions are in inches | Universal Microwave Corp. | | |
| | SPECIFICATION CONTROL DRAWING FOR UMX-472-D16 | | |
| Universal Microwave Corporation Proprietary Information | SIZE A | FSCM NO. | DWG NO. UP-472 |
| Prepared by: M.BANKS 6/24/04 | | | REV A |
| Universal Microwave Corporation 2339 Destiny Way Odessa, FL 33556 | SCALE: N/A | | SHEET 2 OF 2 |