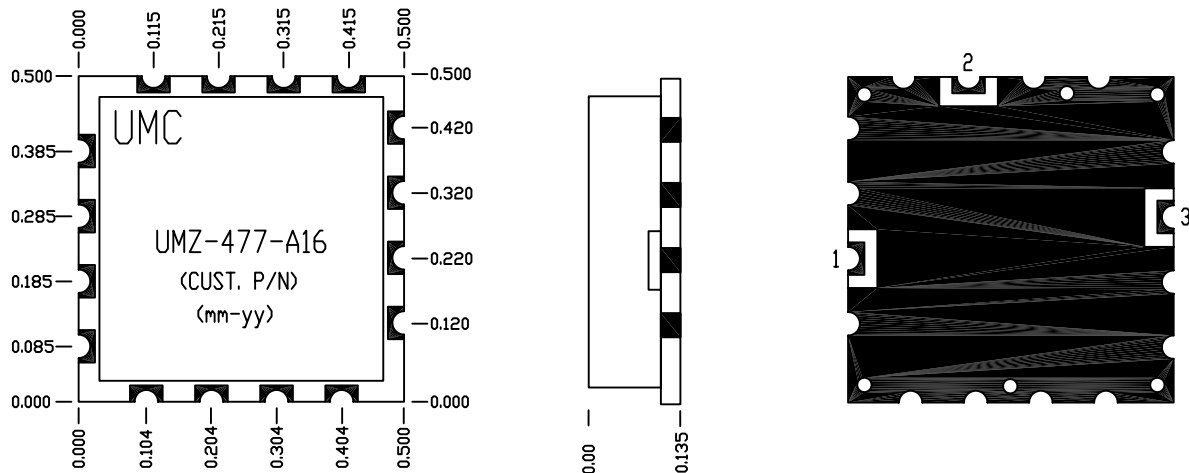




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TABLE 1.1, ABSOLUTE MAXIMUM RATINGS

| | |
|------------------------------|-----------------------|
| Operating Temperature Range | -40 to +85 degrees C |
| Storage Temperature Range | -55 to +125 degrees C |
| Vcc Voltage, Vdc | +13.0 |
| Vtune Voltage, Vdc | +12.0 |
| 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 Information

Prepared by: M.BANKS 5/2/05

Engineer:

Universal Microwave Corporation
2339 Destiny Way
Odessa, FL 33556

Universal Microwave Corp.

SPECIFICATION CONTROL
DRAWING FOR UMZ-477-A16

SIZE
A

FSCM NO.

DWG NO.

UP-477

REV
A

SCALE N/A

SHEET 1 OF 2

| | MIN. | TYP. | MAX. |
|---|------|-------|-------|
| Frequency, MHz | 147 | | 221 |
| Power Output, dBm | +8.0 | +10.0 | +12.0 |
| Harmonics, dBc | | -25 | -20 |
| SSB Phase Noise, dBc/Hz: | | | |
| @ Offset = 1kHz | | -80 | -75 |
| @ Offset = 10kHz | | -107 | -102 |
| @ Offset = 100kHz | | -127 | -122 |
| @ Offset = 1MHz | | -147 | -142 |
| @ Offset = 1MHz | | -164 | -155 |
| Pushing, MHz/V | | 0.3 | 0.6 |
| Pulling, MHz p-p, @12dB _r , all phases | | 0.5 | 1 |
| Tuning Voltage, Vdc | +1.0 | | +11.0 |
| Tuning Sensitivity, MHz/V | | 10 | |
| Frequency drift with temperature: | | | |
| @ -40°C, MHz | | 1 | |
| @ +85°C, MHz | | 1.2 | |
| Supply Voltage, Vdc | | +12.0 | |
| Supply Current, mA | | 18 | |
| Output Power @ $V_t = 0$ and 11V | +6.0 | | |
| Tuning Port Capacitance, pF | | 100 | |
| 3dB Modulation Bandwidth, kHz | | 100 | |

TABLE 1.3 ELECTRICAL SPECIFICATIONS

| | | | |
|--------------------------------------|------------|--------------|---|
| SPECIFICATION CONTROL DRAWING | | | |
| Drawing No. UMZ-477-A16 | | | |
| Size | A | REV | A |
| Engineer: | PJE 5/2/05 | SHEET 2 OF 2 | |