

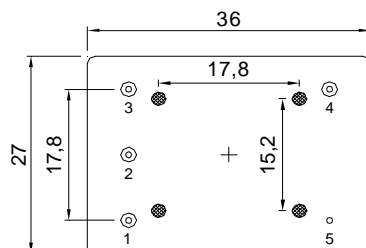
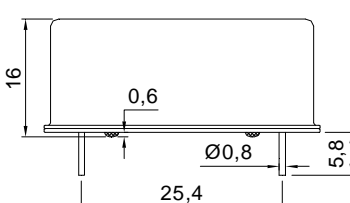

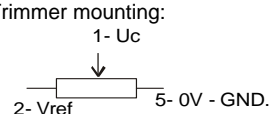
High stability, ultra low phase noise, 10 MHz OCXO

Mil / airborne application

ELECTRICAL CHARACTERISTICS

| NOMINAL FREQUENCY: | | Fn | 10 MHz | | | Notes |
|--|--|--|--|--------------------|--------------------|-------|
| FREQUENCY STABILITY vs TEMPERATURE : | | [-40, +85] °C | < +/- 1.10-8 | | | |
| FREQUENCY STABILITY vs SUPPLY VOLTAGE : | | (Vcc +/- 5%) | < +/- 5.10-10 | | | |
| FREQUENCY STABILITY vs LOAD : | | (Zc +/- 5%) | < +/- 5.10-10 | | | |
| MEDIUM AND LONG TERM STABILITY : (Stable environmental conditions, after 1 month of continuous operation) | | 1 DAY | < +/- 5.10-10 | | | |
| | | 1 MONTH | < +/- 1.10-8 | | | |
| | | 1 YEAR | < +/- 8.10-8 | | | |
| SHORT TERM STABILITY : (Allan variance, static conditions) | | Tau = 1 s, 10 s | < 1.10-12 | | | |
| PHASE NOISE : (Static conditions) | | 1 Hz | < -100 dBc/Hz | | | |
| | | 10 Hz | < -135 dBc/Hz | | | |
| | | 100 Hz | < -155 dBc/Hz | | | |
| | | 1 kHz | < -160 dBc/Hz | | | |
| | | 10 kHz | < -160 dBc/Hz | | | |
| g-SENSITIVITY : (3 axes) | | s/g | < +/- 5.10-10/g | | | |
| WARM UP TIME (FCY) : (referred to fcy after 1 hour stabilization) | | Temperature +/- 5.10-8 | -40°C < 300 s | +25°C < 130 s | +50°C < 90 s | |
| CONSUMPTION : | | Warm-up Steady state | < 3,5 W < 2,8 W | < 3,5 W < 1,5 W | < 3,5 W < 1,0 W | |
| TUNING : (Control voltage or external trimmer 20k) | | ΔF/F CONTROL VOLTAGE SLOPE INPUT IMPEDANCE REFERENCE VOLTAGE | +/- 3.10-7 < Uc < +/- 7.10-7 0 < Uc < +8 V POSITIVE 100 kΩ // 10nF +8 V +/-5%, 0,5 mA max. | | | [1] |
| RF OUTPUT : | | TYPE LEVEL HARMONICS SPURIOUS | SINE WAVE +5 dBm +/- 3 dB < -30 dBc < -90 dBc | | | |

ENVIRONMENT

| | | | | | |
|---|----------------------------|---|---|--|--|
| TEMPERATURE : STORAGE : [-40, +85] °C OPERATING : [-40, +85] °C | |  | | | |
| SUPPLY VOLTAGE : | +12 V +/- 5% | | | | |
| LOAD : | 50 Ω +/- 5 % | | | | |
| VIBRATION : | 10 Hz - 2 kHz / 0,002g²/Hz | | | | |
| SHOCK : | 50 g / 11 ms | | | | |
| PACKAGE | | | | | |
| CASE TYPE: | PIN OUT: | MARKING: |  | | |
| REF: 2736 EB 16 | 1- Uc Control voltage | ar ELECTRONIQUE | | | |
| SIZE : 27,0 x 36,0 x 16,0 mm | 2- Vref Reference voltage | JUMBOSTAR-S 108 U 10 | | | |
| WEIGHT : 25 g | 3- Vcc Supply voltage | AR2020# | | | |
| | 4- RF output | 10MHz SN/Date code |  | | |
| | 5- 0 V - Gnd | | | | |
| PINS SURFACE FINISHING: SnAgCu tinning | | | | | |
| PINS SOLDERING: Hand soldering (recommended), 320°C / 5s max. | | | | | |
| NOTES | | | | | |
| [1]: Trimmer mounting: | | | | | |
|  | | | | | |
| Specification and design subject to change without prior notice | | | | | |