

Customer Code : _____

DATASHEET

DAPU P/N: OSC224-C619-50.00MHz

| Plot | | | The Label |
|------------------|---------|----------|------------------------|
| Drew | Audited | Approved | |
| | | | |
| Date: 2019.10.21 | | | Stamp, please! Thanks! |

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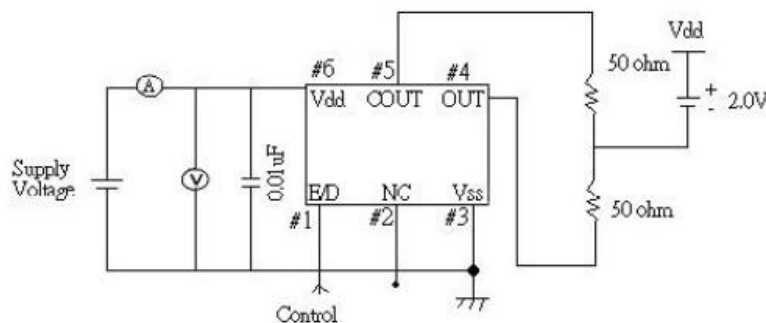
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、 Electrical Parameters

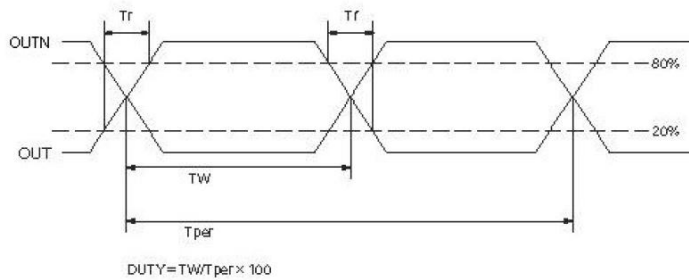
| MODEL: OSC224-C619-50.00MHz | | | | | | | |
|-----------------------------|-----------------------|---|------------------|------|-------|------------------|--|
| No. | Parameters | SYM. | Electrical Spec. | | | | Notes |
| | | | Min. | Typ. | Max. | Units | |
| 1 | Nominal Frequency | FL | 50.00 | | | MHz | |
| 2 | Output Waveform | | LVPECL | | | | |
| 3 | Supply Voltage | | 3.135 | 3.3 | 3.465 | V | |
| 4 | Frequency Stability | F-stab | -50 | | +50 | $\times 10^{-6}$ | Inclusive of initial tolerance, operating temperature, rated power supply voltage, and load variations |
| 5 | Operating Temperature | T-opr | -40 | ~ | +85 | °C | |
| 6 | Storage Temperature | T-stg | -55 | ~ | +125 | °C | |
| 7 | Aging(year) | | -3 | | +3 | $\times 10^{-6}$ | |
| 8 | Current Consumption | I _{dd} | - | | 70 | mA | |
| 9 | Output Load | | | | 50 | Ω | VDD-2.0V |
| 10 | Rise/Fall Time | Tr、 Tf | | | 1 | ns | 20%~80% output swing level |
| 11 | Duty Cycle | DC | 45 | | 55 | % | |
| 12 | Output Voltage High | VOH | 2.275 | | | V | |
| 13 | Output Voltage Low | VOL | | | 1.680 | V | |
| 17 | Shock | Free Drop from 75cm height on a hard wood board for 3 time. | | | | | |
| | Vibration | 10~55Hz 1.5mm p-p 1~2min/CICLE,X,Y,Z 2H for each plane | | | | | |
| | Aging | 85°C ± 3°C 720H(No BIAS) | | | | | |
| | High Humidity | 40°C ± 2°C X 90%-95% 96H(No BIAS) | | | | | |
| | Temperature Cycle | -40°C~85°C,30min X 10 Cycle | | | | | |
| | Solderability | MIL-STD-202,Method 208 | | | | | |

2、 Test Circuit

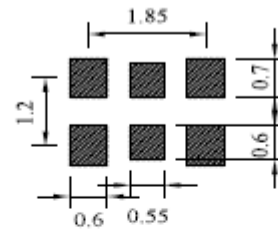
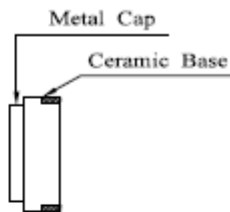
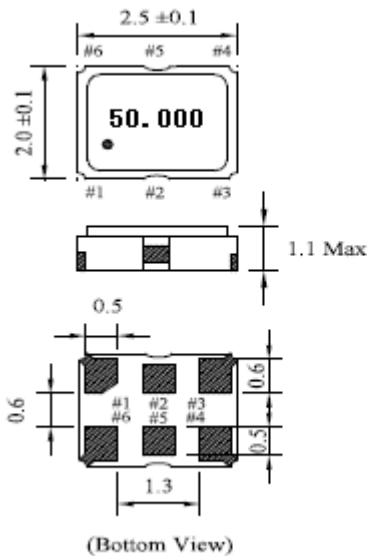




3、 Output Waveform



4、 Mechanical Structure(mm)

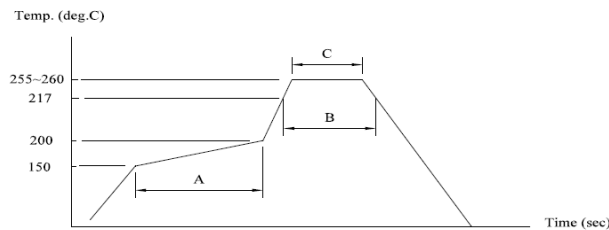


Pin Connections
 # 1 : INH
 # 2 : Nc
 # 3 : Gnd
 # 4 : Output
 # 5 : Complementary Output
 # 6 : Vdd

| INH Function | |
|--------------|-----------------------------|
| #1 | #4 , #5(Output) |
| Open | Active |
| "H"Level | Active |
| "L"Level | High Z(Oscillation Stopped) |

Note1:Tolerance ±0.2mm without mark

5、 Reflow Soldering Curve (RoHS)

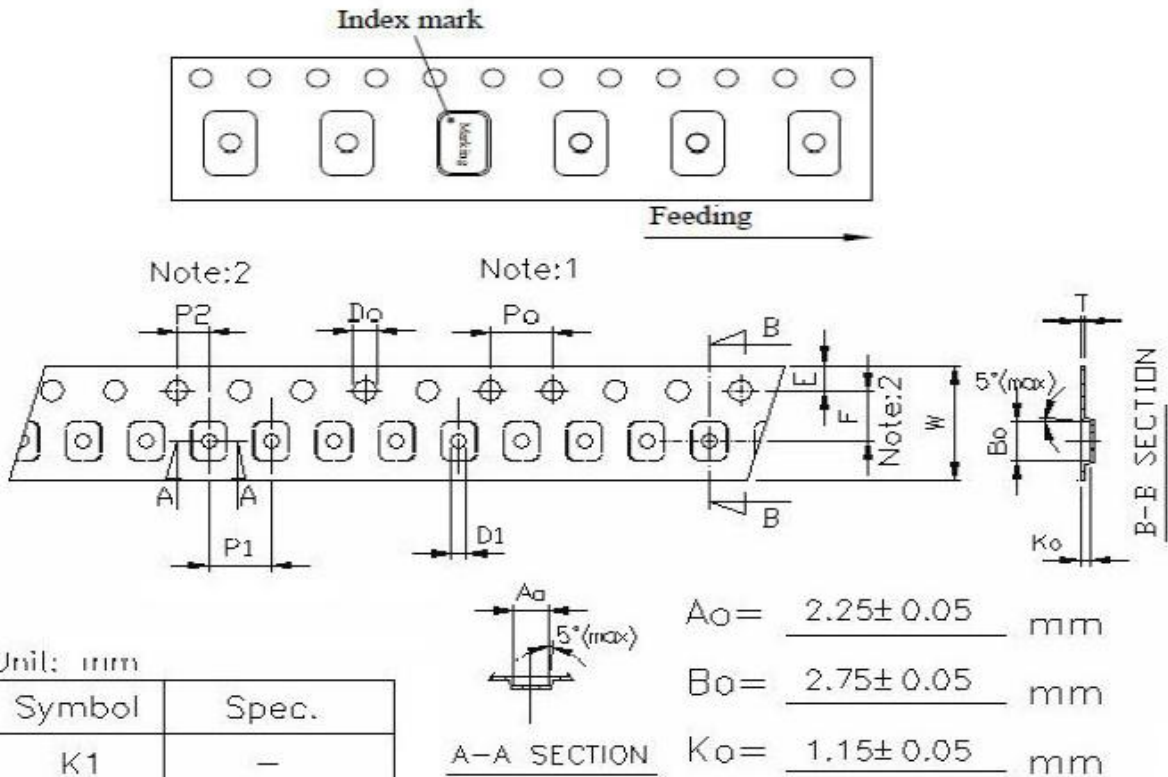


(A)→Preheating area : 150~200°C, 60~120sec.
 (B)→Heating area : 217°C, 60~150sec.
 (C)→Peak temperature : 255~260°C, 30sec. Max.
 Ramp-up rate (217→260°C) : 3°C/sec. Max.
 Ramp-down rate (260→217°C) : 6°C/sec. Max.
 Time 25°C→260°C : 480sec. Max.

*Reference JEDEC J-STD-020



6、 Package: Tape & Reel (mm)



Unit: mm

| Symbol | Spec. |
|--------|-----------|
| K1 | - |
| Po | 4.0±0.10 |
| P1 | 4.0±0.10 |
| P2 | 2.0±0.05 |
| Do | 1.55±0.05 |
| D1 | 1.10±0.10 |
| E | 1.75±0.10 |
| F | 3.50±0.05 |
| 10Po | 40.0±0.20 |
| W | 8.0±0.20 |
| T | 0.25±0.05 |

Notice:

- 1.10 Sprocket hole pitch cumulative tolerance is ±0.2mm
2. Pocket position relative to sprocket hole measured as true position of pocket not pocket hole.
3. Ao & Bo measured on a place 0.3mm above the bottom of the pocket to top surface of the carrier.
4. Ko measured from a plane on the inside bottom of the pocket to the top surface of the carrier.
5. Carrier camber shall be not than 1mm per 100mm through a length of 250mm.