

Features

- ⊗ Frequency range : 1MHz to 170MHz
- ⊗ SMD seam sealing ceramic package
- ⊗ Supply voltage : 1.8V ~ 3.3V
- ⊗ CMOS output
- ⊗ Tri-state function available
- ⊗ External dimensions (mm)
L : 7.0 x W : 5.0 x H : 1.3
- ⊗ RoHS compliant & Pb free

Applications

- ⊗ Networking, Server, Storage
- ⊗ Wireless communications
- ⊗ Fibre channel, Ethernet, SATA, SAS, PCI-E, USB, WLAN, xDSL, xPON
- ⊗ PC mainboard, Notebook, HDD, SSD, Graphics card, Computer peripherals
- ⊗ Audio, Video, Gaming, Printer, DSC, IP CAM, Consumer products

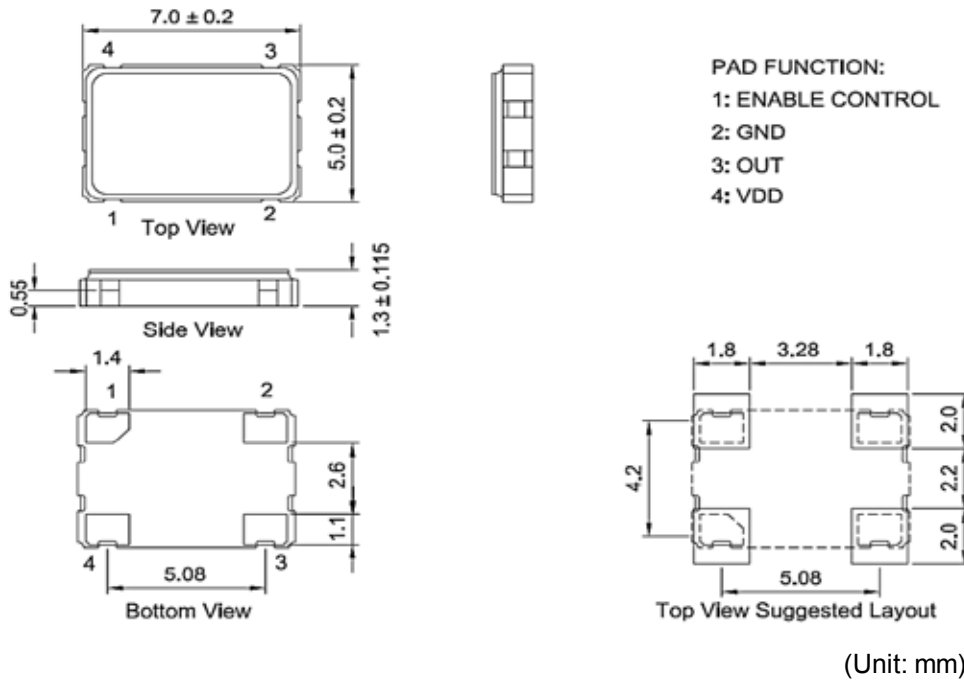
Electrical Characteristics

| Item | 7W | Conditions |
|---|------------------------|---------------------------|
| Frequency Range (F_0) | 1MHz ~ 170MHz | |
| Frequency Stability (F_{stab}) | ±50ppm, ±30ppm, ±25ppm | Note [1] |
| Operating Temperature Range (T_{OTR}) | -40°C ~ +85°C | |
| Supply Voltage (V_{DD}) | 1.8V, 2.5V, 3.3V | $V_{DD} \pm 10\%$ |
| Current Consumption (I_{DD}) | 10 mA Max. | 1MHz ~ 75MHz |
| | 20 mA Max. | 75MHz ~ 170MHz |
| Output Type | CMOS | |
| Output Load (C_L) | 15 pF | |
| Output Voltage High (V_{OH}) | 90% V_{DD} Min. | |
| Output Voltage Low (V_{OL}) | 10% V_{DD} Max. | |
| Rise & Fall Time (T_r / T_f) | 8 ns Max. | 10% ~ 90% of V_{DD} |
| Duty Cycle | 40% ~ 60% | |
| Start-up Time | 5 ms Max. | |
| Enable Voltage High, Logic "1" | 70% V_{DD} Min. | Input to Pin1 Note [2] |
| Enable Voltage Low, Logic "0" | 30% V_{DD} Max. | |
| Phase Jitter, RMS | 1 ps Max. | Note [3] |
| Aging (F_{aging}) | ±3 ppm Max. | at 25°C±3°C, first year |
| Storage Temperature Range (T_{STR}) | -55°C ~ +125°C | |

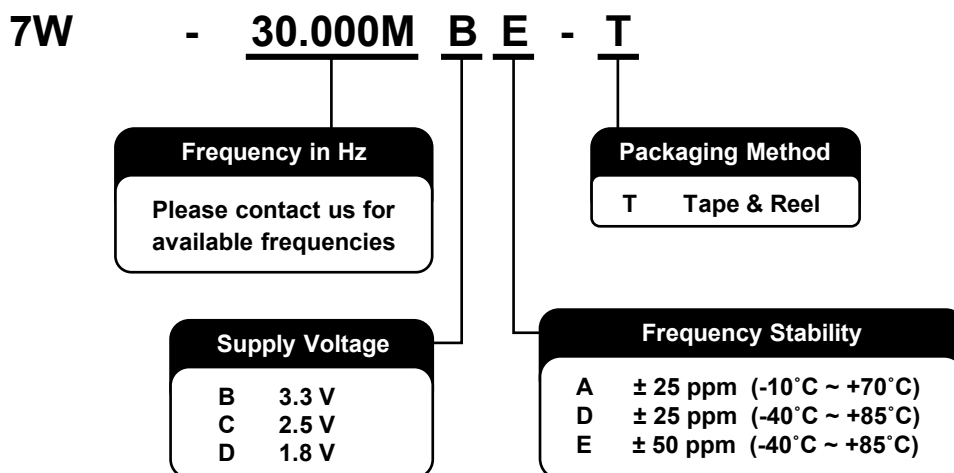
Notes:

- [1] Inclusive of frequency tolerance at 25°C, 1st year aging at 25°C, and variations over operating temperature, supply voltage, and load.
- [2] Output will be enabled if Pin1 is Logic "1" or open; Output will be disabled if Pin1 is Logic "0".
- [3] Freq. 10MHz~40MHz, integrated 12kHz~5MHz; Freq. >40MHz, integrated 12kHz~20MHz.

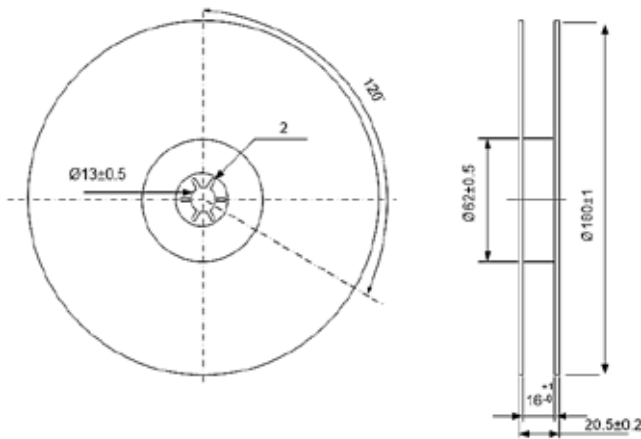
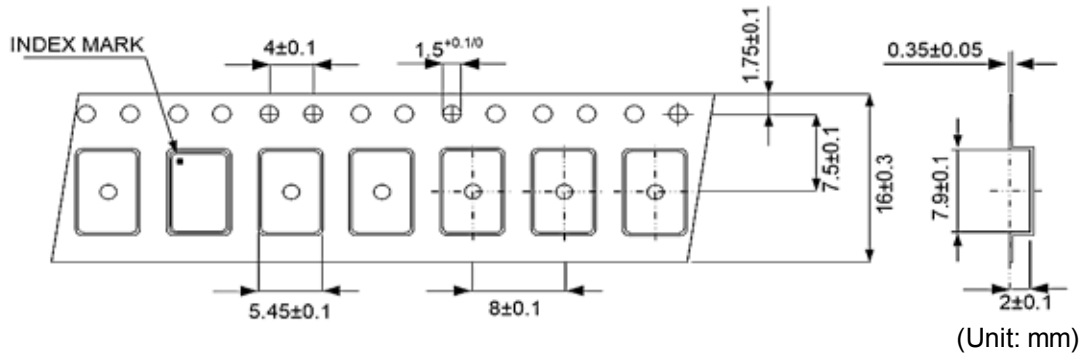
Dimensions



Ordering Information



Packing



Reflow Profile

Solder melting point : 220°C ± 10°C, 60 sec. Min.

Peak temperature : 260°C ± 10°C, 10 sec. Min.

