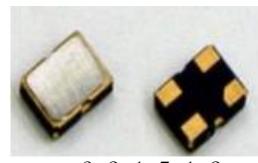


## Main Feature

- Low height 1.2mm max
- Cross Ref. No. ASE/ASE2/ASE3
- CCD clock for VTR Camera
- Low RMS jitter 5ps max
- Low current consumption
- Thin equipment



3.2\*1.5\*1.2mm

## Standard Specification

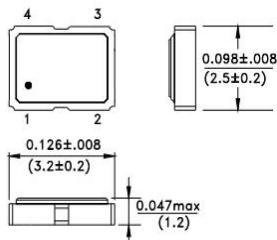
Frequency Range: 1.00MHz ~ 60.0MHz  
 Supply Voltage: 3.3V, 2.5V, 1.8V  
 Overall Frequency Stability:  $\pm 20\text{ppm}$  ~  $\pm 100\text{ppm}$   
 Symmetry: 40/60 or 45/55  
 Operating Temperature: -20 ~ +70 °C; -40 ~ +85 °C  
 Storage Temperature: -55 °C ~ +125°C  
 Aging (at 25°C):  $\pm 5\text{ppm}$  Max.  
 Output Load: CMOS 15pF  
 Start up Time: 5 ms Max.  
 Rise/Fall Time: 10 ns Max.  
 Output Voltage (VOH): 0.9Vdd V  
 Output Voltage (VOL): 0.10Vdd V  
 Period Jitter RMS: 5.0ps Max.  
 Stand-by Current: 10uA  
 Package: 3000pcs/Reel

## Supply Current

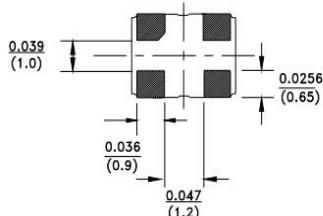
Frequency Range in MHz	Current Max. (mA)
1.000~20.000 (3.3V)	7.0mA Max
20.1000~40.000 (3.3V)	13.0mA Max
40.100~60.000 (3.3V)	19.0mA Max
1.000~19.999 (2.5V)	8.0mA Max
20.000~31.999 (2.5V)	8.0mA Max
32.000~60.000 (2.5V)	15.0mA Max
1.000~9.999 (1.8V)	4.0mA Max
10.000~29.999 (1.8V)	4.0mA Max
30.000~60.000 (1.8V)	6.0mA Max

## Dimension (Unit: mm)

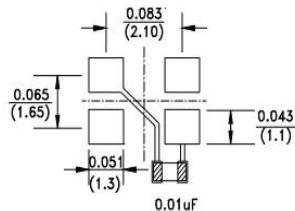
## Top View



## Bottom View



## Solder Pattern



## TGS part No. Guide

TGS	VTM32	3	1	B	D	H	03	T	LF	XX	-27M0000
	1	2	3	4	5	6	7	8	9	10	11

- 1) VTM32: TGS Part Family No.
- 2) Supply Voltage; 5~2.5V; 3~3.3V; 1~1.8V
- 3) Tri-state: 1=Yes; 0=None
- 4) Frequency Stability: A:+/-25ppm; B: +/-50ppm; C: +/-100ppm; D:+/-30ppm J:+/-20ppm
- 5) Operating Temp: D: 0~70 °C; E: -10 ~ +60 °C; F: -20 ~ +70 °C; G: -40 ~ +85 °C
- 6) Symmetry: H: 40/60; I: 45/55
- 7) Output Load: 01: 1-10TTL//15pF; 03:CMOS 15pF; 04: HCMOS 30pF; 05: HCMOS 50pF
- 8) T: Tube
- 9) LF: RoHS compliant
- 10) XX: 2 letters as Internal Control Code
- 11) Frequency Range in MHz or specify