

SMD TCXO

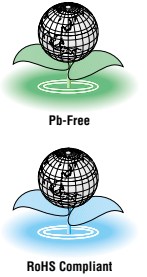
DSK321STD/DSK321STA



Actual size

Features

- Digital temperature compensated type(DSK321STD)
- Analog temperature compensated type(DSK321STA)
- High precision: $\pm 5.0 \times 10^{-6}$ ($-40 \sim 85^{\circ}\text{C}$)
 $\pm 3.8 \times 10^{-6}$ ($-10 \sim 60^{\circ}\text{C}$)
- Low current consumption
- Low voltage operation: $+1.2\text{V} \sim +3.3\text{V}$ (DSK321STA)
- Prevention of moisture packing is unnecessary
Moisture Sensitivity Level: Level 1 (IPC/JEDEC J-STD-033)
- AEC-Q 100 compliant



Applications

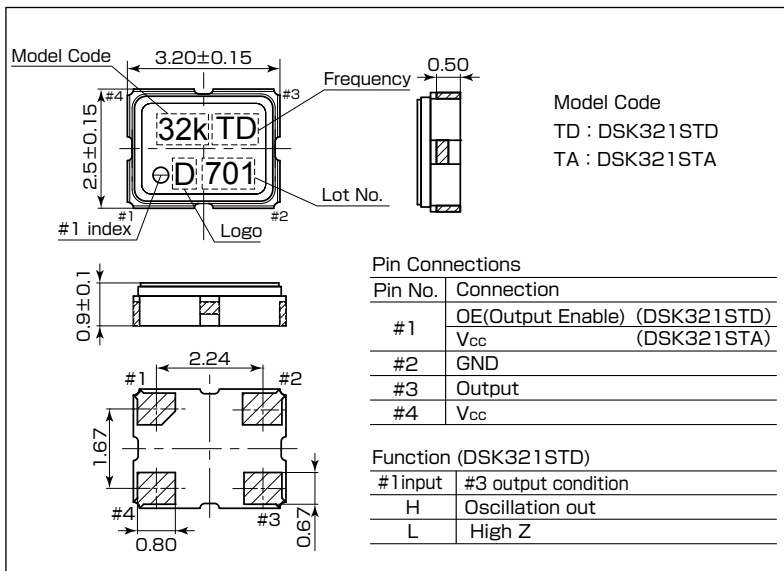
- High precision clock source
- High precision clock source for RTC

Standard Specification

Item	Legend	Spec.				Condition	
		min.	Typ.	max.	Unit		
Output Frequency	FO		32.768		kHz		
Output Frequency	Vcc	+2.0	—	+5.5	V	(Temperature Compensated Operating)	
		+1.3	—	+5.5		(Clock Timing Operating)	
		+1.1	—	+3.6	V	DSK321STA	
Frequency Tolerance	f_tol	-5.0	—	+5.0	$\times 10^{-6}$	-40~+85°C	
		-3.8	—	+3.8		-10~+60°C	
Current Consumption	Icc	—	+1.2	+2.5	μA	Vcc=+3.3V, Temperature Compensation Interval:0.5s, No Load	
		—	+1.7	+3.2		Vcc=+5.0V, Temperature Compensation Interval:0.5s, No Load	
		—	+1.0	+2.0		Vcc=+3.3V, Temperature Compensation Interval:2.0s, No Load	
		—	+1.5	+3.0		Vcc=+5.0V, Temperature Compensation Interval:2.0s, No Load	
	Icc	—	+1.05	+2.4	μA	Vcc=+1.2V, Temperature Compensation Interval:0.5s, No Load	
		—	+1.15	+2.5		Vcc=+1.8V, Temperature Compensation Interval:0.5s, No Load	
		—	+0.85	+2.1		Vcc=+1.2V, Temperature Compensation Interval:2.0s, No Load	
		—	+0.95	+2.2		Vcc=+1.8V, Temperature Compensation Interval:2.0s, No Load	
Symmetry	SYM	40	50	60	%	at 50% Vcc	
0 Level Output Voltage	Vol	—	—	+0.4	V		
1 Level Output Voltage	VoH	Vcc-0.4	—	—	V		
Rise and Fall Time	tr, tf	—	—	50	ns	Vcc=+2.0~+5.5V, 10~90% Vcc Level	
		—	—	200		Vcc=+1.3~+5.5V, 10~90% Vcc Level	
		—	—	50	ns	Vcc=+1.5~+3.6V, 10~90% Vcc Level	
		—	—	200		Vcc=+1.1~+1.5V, 10~90% Vcc Level	
Load Condition	L_cmos	—	—	15	pF		
Start Up Time	Tstart	—	—	3.0	s	DSK321STD	
		—	—	1.0	s	DSK321STA	
Packing Unit		2000pcs./reel ($\phi 180$)					

Consult our sales representative for other specifications.

Dimensions[mm]



Recommended Land Pattern [mm]

