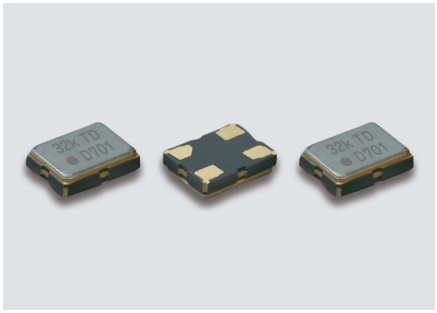
SMD TCXO〈For Automotive〉

DSK321STD



Actual size

■ Features

- Digital temperature compensated type
- High precision: ±5.0×10^{-6} (−40 to +85℃)
- Low current consumption
- CMOS Level Output
- AEC-Q200 Compliant

■ Applications

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

Pb-Free

RoHS/ELV Compliant

■ Standard Specification

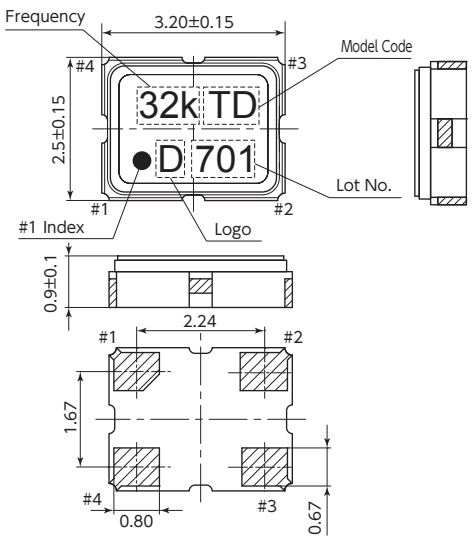
Item	Legend	Spec.				Condition
		min.	typ.	max.	Unit	
Output Frequency	f0	–	32.768	–	kHz	
Supply Voltage Range	Vcc	+1.5	–	+3.63	V	(Temperature Compensated Operating)
Frequency Tolerance (Includes frequency tolerance at room temperature.)	f_tol	−5.0	–	+5.0	×10^{-6}	−40 to +85℃
Current Consumption	Icc	–	–	+3.5	μA	Vcc=+1.8V or +3.3V, Temperature Compensation Interval:0.5s, No Load
		–	–	+3.2		Vcc=+1.8V or +3.3V, Temperature Compensation Interval:2.0s, No Load
Symmetry	SYM	40	50	60	%	at 50% Vcc
0 Level Output Voltage	VOL	–	–	Vcc×0.1	V	
1 Level Output Voltage	VOH	Vcc×0.9	–	–		
Rise and Fall Time	tr, tf	–	–	50	ns	Vcc=+1.5 to +3.63V, 10 to 90% Vcc Level
Load Condition	L_CMOS	–	–	15	pF	
Start Up Time	Tstart	–	–	1.0	s	
Reliability	AEC-Q200					
Packing Unit (1)	2000pcs./reel (φ180)					

(1) Moisture prevention packing is unnecessary.
Moisture Sensitivity Level:Level 1 (IPC/JEDEC J-STD-033)

Consult our sales representative for other specifications.

[mm]

■ Dimensions



Pin Connections

Pin No.	Connection
#1	Vcc
#2	GND
#3	Output
#4	Vcc

■ Recommended Land Pattern

<Top View>