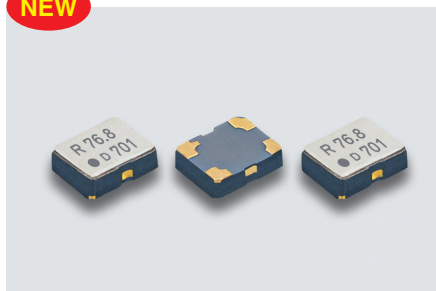


High-precision SMD TCXO (For Automotive)

DSB1612SEB

NEW


Actual size

Features

- Capable of operating over a wide temperature range from -40 to $+105^{\circ}\text{C}$
- High frequencies operation
- Low voltage operation
- Clipped sine wave
- Low phase noise
- Single package structure
- AEC-Q200 Compliant

Applications

- Automotive WiFi, WiLAN, WiMAX, Bluetooth
- GNSS, Industrial equipment



Pb-Free



RoHS Compliant

Standard Specification

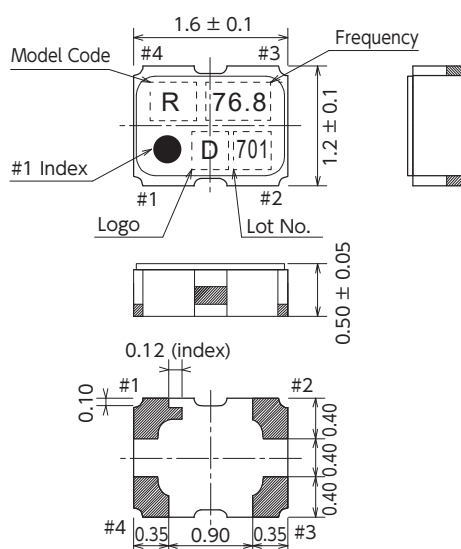
DSB1612SEB	
Output Frequency Range	26 to 76.8MHz
Supply Voltage Range	+1.8 to +3.3V
Current Consumption	+4.5mA max.($f \leq 52\text{MHz}$)/+5.0mA max.($f > 52\text{MHz}$)
Stand-by Current (#1 pin "L" Level)	+3uA max.
Output Level	0.8Vp-p min. (Clipped Sine Wave / DC-coupled)
Output Load	10k Ω //10pF
Frequency Stability	
Tolerance	$\pm 2.0 \times 10^{-6}$ max.(After 2 reflows)
vs. Temperature	$\pm 5.0 \times 10^{-6}$ max. (-40 to $+105^{\circ}\text{C}$)
vs. Supply Voltage	$\pm 0.2 \times 10^{-6}$ max. ($V_{CC} \pm 5\%$)
vs. Load Variation	$\pm 0.2 \times 10^{-6}$ max.
vs. Aging	$\pm 2.0 \times 10^{-6}$ max./year
Start up Time	2.0ms max.
Phase Noise	
Offset 100Hz	[$f \leq 52\text{MHz}$] -110dBc/Hz [$f > 52\text{MHz}$] -108dBc/Hz
Offset 1kHz	-130dBc/Hz -125dBc/Hz
Offset 10kHz	-152dBc/Hz -150dBc/Hz
Offset 100kHz	-155dBc/Hz -155dBc/Hz
Reliability	AEC-Q200
Packing Unit (1)	3000pcs./reel ($\Phi 180$)

(1) Moisture prevention packing is unnecessary.
 Moisture Sensitivity Level:Level1 (IPC/JEDEC J-STD-033)

Consult our sales representative for other specifications.

[mm]

Dimensions



Pin Connections

Pin No.	Connection
#1	O.E. (Output Enable)
#2	GND
#3	Output
#4	Vcc

Output Enable
 H Oscillation
 L Stand by

Recommended Land Pattern

<Top View>

