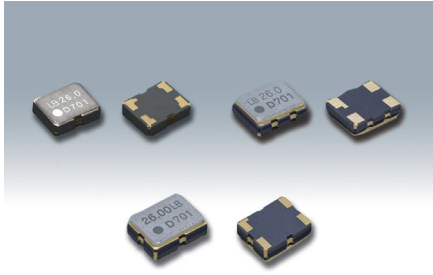


# High-precision SMD TCXO

## DSB211SLB/DSB221SLB/DSB321SLB



Actual size DSB211SLB DSB221SLB   
DSB321SLB

### ■ Features

- Low voltage operation  
(Supply Voltage Range:+1.1 to +1.4V)
- Low phase noise
- Single packaged structure

### ■ Applications

- GPS/GNSS
- Industrial radio communications



[Type]

TCXO	Size
DSB211SLB	2016 size
DSB221SLB	2520 size
DSB321SLB	3225 size

### ■ Standard Specification

Item	Type	DSB211SLB	DSB221SLB	DSB321SLB
Frequency Range		12.288 to 40MHz	9.6 to 40MHz	
Standard Frequency		16.3676MHz/ 16.367667MHz/ 16.368MHz/ 16.369MHz/ 16.8MHz/ 26MHz/ 33.6MHz		
Supply Voltage Range		+1.1 to +1.4V		
Supply Voltage(Vcc)		+1.2V		
Current Consumption		+1.7mA max. (f≤26MHz) +2.2mA max. (f>26MHz)		
Stand-by Current(#1 pin "L" Level)		+3.0μA max.		
Output Level		0.8Vp-p min. (Clipped sine wave / DC-coupled)		
Output Load		10kΩ//10pF		
Frequency Stability				
Tolerance		±1.5×10 <sup>-6</sup> max.(After 2 reflows)		
vs. Temperature		±0.5×10 <sup>-6</sup> max. / -30 to +85°C		
vs. Supply Voltage		±0.1×10 <sup>-6</sup> max. (Vcc±5%)		
vs. Load		±0.1×10 <sup>-6</sup> max. (10kΩ//10pF ±10%)		
vs. Aging		±1.0×10 <sup>-6</sup> max. /year		
Start up time		2.0msec. max.		
Phase Noise				
Offset 100Hz	[f≤15MHz]	-115dBc/Hz	[15MHz<f≤26MHz]	[26MHz<f≤40MHz]
Offset 1kHz		-135dBc/Hz	-110dBc/Hz	-105dBc/Hz
Offset 10kHz		-145dBc/Hz	-130dBc/Hz	-125dBc/Hz
Offset 100kHz		-145dBc/Hz	-140dBc/Hz	-135dBc/Hz
Offset 100kHz		-145dBc/Hz	-145dBc/Hz	-145dBc/Hz
Packing Unit (1)		3000pcs./reel (φ180)		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.

### ■ DSB211SLB

[mm] ■ DSB221SLB

[mm] ■ DSB321SLB

[mm]

Dimensions	Dimensions	Dimensions																														
<p>Model Code: LB 26.0, D 701 Frequency: 26.000 #1 Index, Logo, Lot No.</p> <p>Recommended Land Pattern &lt;Top View&gt;</p> <p>Pin Connections</p> <table border="1"> <tr><th>Pin No.</th><th>Connection</th></tr> <tr><td>#1</td><td>ENABLE/DISABLE(Stand-by Function)</td></tr> <tr><td>#2</td><td>GND</td></tr> <tr><td>#3</td><td>Output</td></tr> <tr><td>#4</td><td>Vcc</td></tr> </table>	Pin No.	Connection	#1	ENABLE/DISABLE(Stand-by Function)	#2	GND	#3	Output	#4	Vcc	<p>Model Code: LB 26.0, D 701 Frequency: 26.000 #1 Index, Logo, Lot No.</p> <p>Recommended Land Pattern &lt;TOP View&gt;</p> <p>Pin Connections</p> <table border="1"> <tr><th>Pin No.</th><th>Connection</th></tr> <tr><td>#1</td><td>ENABLE/DISABLE(Stand-by Function)</td></tr> <tr><td>#2</td><td>GND</td></tr> <tr><td>#3</td><td>Output</td></tr> <tr><td>#4</td><td>Vcc</td></tr> </table>	Pin No.	Connection	#1	ENABLE/DISABLE(Stand-by Function)	#2	GND	#3	Output	#4	Vcc	<p>Model Code: 26.00LB, D 701 Frequency: 26.000 #1 Index, Logo, Lot No.</p> <p>Recommended Land Pattern &lt;Top View&gt;</p> <p>Pin Connections</p> <table border="1"> <tr><th>Pin No.</th><th>Connection</th></tr> <tr><td>#1</td><td>ENABLE/DISABLE(Stand-by Function)</td></tr> <tr><td>#2</td><td>GND</td></tr> <tr><td>#3</td><td>Output</td></tr> <tr><td>#4</td><td>Vcc</td></tr> </table>	Pin No.	Connection	#1	ENABLE/DISABLE(Stand-by Function)	#2	GND	#3	Output	#4	Vcc
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