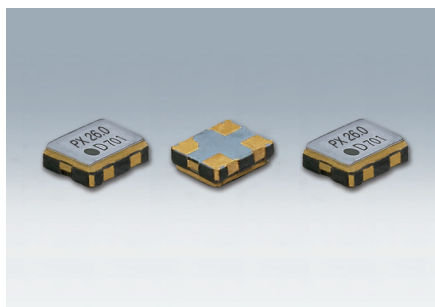


High-precision SMD TCXO <For Automotive>

DSB211SPX



Actual size

■ Features

- Capable of operating over a wide temperature range, from -40 to +125°C
- Supply voltage from +1.7 up to +3.6V
- Single packaged structure
- AEC-Q200 Compliant (Option: Equivalent to AEC-Q100)

■ Applications

- GPS/GNSS, DSRC(WiFi11p), In-vehicle RF



■ Standard Specification

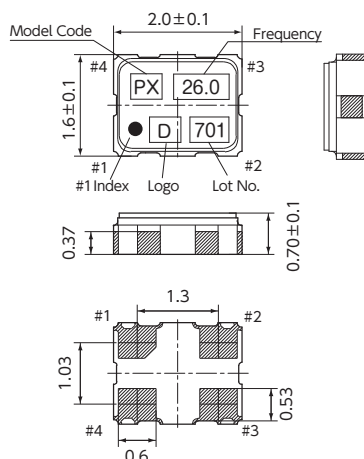
Item	Type	DSB211SPX
Output Frequency Range		13 to 52 MHz
Standard Frequency		26MHz/ 38.4MHz/ 40MHz/ 52MHz
Supply Voltage Range		+1.68 to +3.63V
Supply Voltage (Vcc)		+1.8V/ +2.5 V/ +2.8V/ +3.3V
Current Consumption		+3.0mA max. (+3.3V, 26MHz)
Stand-by Current (#1 pin "L" Level)		+10μA max.
Output Level		0.8 V _{p-p} min. (Clipped Sine Wave/ DC-coupled)
Output Load		10 kΩ//10 pF
Frequency Stability Tolerance		±1.5×10 ⁻⁶ max.(After 2 reflows)
vs. Temperature		±0.5×10 ⁻⁶ max./-40 to +105°C
vs. Supply Voltage		±5.0 × 10 ⁻⁶ max./-40 to +125°C (option)
vs. Load Variation		±0.2×10 ⁻⁶ max. (Vcc±5%)
vs. Aging		±0.2×10 ⁻⁶ max. (10kΩ//10pF ±10%)
0 Level Output Voltage		±1.0×10 ⁻⁶ max./year
1 Level Output Voltage		Vcc×0.2
Start up Time		Vcc×0.8
SSB Phase Noise		3.0ms max.
Offset 100Hz		40MHz (typ.)
Offset 1kHz		-110dBc/Hz
Offset 10kHz		-133dBc/Hz
Offset 100kHz		-152dBc/Hz
Reliability		-148dBc/Hz
Packing Unit (1)		AEC-Q100/AEC-Q200
		3000pcs./reel (φ180)

(1) Prevention of moisture 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	O.E. (Output Enable)
#2	GND
#3	Output
#4	Vcc

Function

OE(#1) Input	#3 Output condition
"H"	Oscillation out
"L"	High Z

■ Recommended Land Pattern

<Top View>

