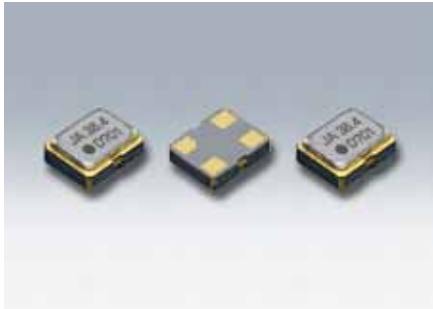


SMD TCXO (For Automotive)

DSB211SJA



Actual size

Features

- Capable of operating over a wide temperature range, from -40 to +105°C
- Supply voltage up to +1.7 to +3.6V
- CMOS Level Output
- Low phase noise
- Single package structure
- AEC-Q100/AEC-Q200 Compliant

Applications

- Automotive multimedia device, WiLAN and visual applications such as automotive camera



Standard Specification

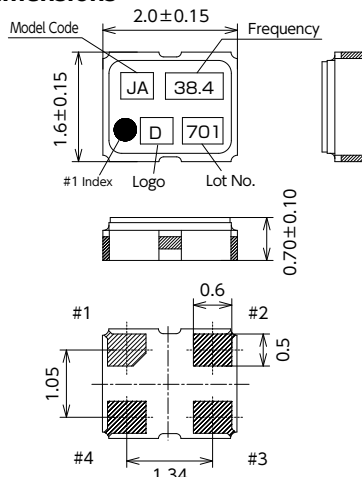
Item	Type	DSB211SJA (TCXO)
Frequency Range		13 to 52MHz
Standard Frequency		19.2MHz/ 25MHz/ 26MHz/ 32MHz/ 38.4MHz/ 40MHz/ 48MHz/ 52MHz
Supply Voltage (Vcc)		+1.8V/ +2.5V/ +2.8V/ +3.3V
Current Consumption		5.0mA max. [No Load]
Stand-by Current		+10 μ A max.
Frequency Stability Tolerance		$\pm 1.5 \times 10^{-6}$ max. (After 2 reflows)
vs. Temperature		$\pm 2.5 \times 10^{-6}$ max./ -40 to +85°C $\pm 5.0 \times 10^{-6}$ max./ -40 to +105°C $\pm 20 \times 10^{-6}$ max./ -40 to +125°C (Option)
vs. Aging		$\pm 1.0 \times 10^{-6}$ max./year
Symmetry		45 to 55% (50% Vcc Level)
0 Level Output Voltage		Vcc \times 0.1V
1 Level Output Voltage		Vcc \times 0.9V
Output Load		15pF
Rise and Fall Time		5ns max. (10% to 90% Vcc Level)
OE Pin 0 Level Input Voltage		Vcc \times 0.2V
OE Pin 1 Level Input Voltage		Vcc \times 0.8V
Start Up Time		3.0ms max.
Output Enable Time		3.0ms max.
Output Disable Time		150ns max.
SSB Phase Noise (Typ.)		[f \leq 26MHz] [26MHz < f \leq 52MHz] Offset 1kHz -145dBc/Hz -141 dBc/Hz Offset 100kHz -158dBc/Hz -157dBc/Hz
Reliability		AEC-Q100/AEC-Q200
Packing Unit (1)		3000pcs./reel (ϕ 180)

(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	OE (Output Enable)
#2	GND
#3	Output
#4	Vcc

Function

#1 Input	#3 Output condition
H	Oscillation out
L	High Z

Recommended Land Pattern

<Top View>

