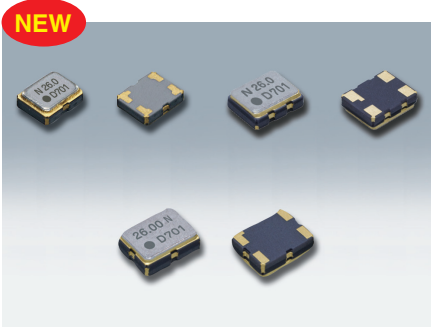


# SMD VC-TCXO / TCXO

DSA221SJ/DSB211SJ/DSB221SJ/DSB321SJ for Industrial Radio system



Actual size DSB211SJ DSA221SJ/DSB221SJ DSB321SJ

## Features

- Supply voltage up to +2.3~+3.6V
- CMOS Level Output
- Low phase noise
- Single package structure
- Moisture prevention packing is unnecessary.  
Moisture Sensitivity Level: LEVEL 1 (IPC/JEDEC J-STD-033)



## Applications

- Industrial radio communications

[Type]

VC-TCXO	TCXO	Size
-	DSB211SJ	2016 size
DSA221SJ	DSB221SJ	2520 size
-	DSB321SJ	3225 size

## Standard Specification

Item	Type	VC-TCXO		TCXO	
		DSA221SJ	DSB211SJ	DSB221SJ	DSB321SJ
Output Frequency Range		10~40MHz			
Standard Frequency		13MHz/ 19.2MHz/ 20MHz/ 26MHz/ 38.4MHz/ 40MHz			
Supply Voltage(Vcc)		+2.6V / +2.8V / +3.0V / +3.3V			
Current Consumption		+4.0mA max.(f≤26MHz) / +6.0mA max.(f>26MHz)			
0 Level Output Voltage		Vcc×0.1V			
1 Level Output Voltage		Vcc×0.9V			
Output Load		15pF			
Rise and Fall Time		10ns max.(10%~90% Vcc Level)			
Frequency Stability Tolerance		±1.5×10 <sup>-6</sup> max.(After 2 reflows)			
vs. Temperature		±2.5×10 <sup>-6</sup> max./ -30~+85°C			
vs. Supply Voltage		±0.3×10 <sup>-6</sup> max.(Vcc±5%)			
vs. Aging		±1.0×10 <sup>-6</sup> max. /year			
Frequency Control Control Sensitivity		±9.0×10 <sup>-6</sup> ~±15×10 <sup>-6</sup> / Vcont=+1.5V±1.0V		-	
Response Slope		Positive		-	
Start up Time		2.0ms max.			
Phase Noise		[f≤15MHz]	[15MHz<f≤26MHz]	[f>26MHz]	
Offset 100Hz		-115dBc/Hz	-110dBc/Hz	-105dBc/Hz	
Offset 1kHz		-135dBc/Hz	-130dBc/Hz	-125dBc/Hz	
Offset 10kHz		-145dBc/Hz	-140dBc/Hz	-135dBc/Hz	
Offset 100kHz		-145dBc/Hz	-145dBc/Hz	-145dBc/Hz	
Packing Unit		DSA221SJ/DSB211SJ/DSB221SJ: 3000pcs./reel(φ 180), DSB321SJ: 2000pcs./reel(φ 180)			

Consult our sales representative for other specifications.

## DSB211SJ [mm]

## DSA221SJ/DSB221SJ [mm]

## DSB321SJ [mm]

