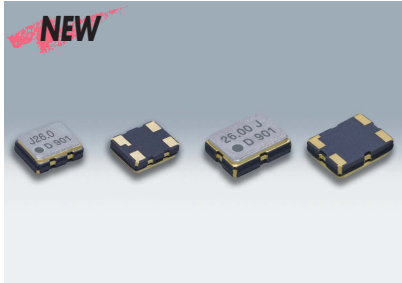


Ultra miniature and Low voltage SMD VC-TCXO/TCXO

DSA221SE/DSA321SE/DSB221SE/DSB321SE for GPS / Industrial Radio system



Actual size DSA221SE DSA321SE

Features

- Low voltage, Supply voltage up to +1.7~+3.6V
- Low phase noise
- Single package structure
- Prevention of moisture packing is unnecessary. Moisture Sensitivity Level: LEVEL 1 (IPC/JEDEC J-STD-033)

Applications

- GPS and Industrial radio communications

[Type]

VC-TCXO	TCXO	Size
DSA221SE	DSB221SE	2520 size
DSA321SE	DSB321SE	3225 size



Standard Specification

Item	Type	VC-TCXO		TCXO	
		DSA221SE	DSA321SE	DSB221SE	DSB321SE
Output Frequency Range		9.6~40MHz			
Standard Frequency		16.3676/ 16.367667/ 16.368/ 16.369/ 16.8/ 24.5535/ 26/ 33.6MHz			
Supply Voltage (Vdd)		+1.8V			
Current Consumption		+1.3mA max. (f≤26MHz) / +1.5mA max. (f>26MHz)			
Output Level		0.8Vp-p min. (Clipped Sinewave/ DC-coupled)			
Output Load		10kΩ//10pF			
Frequency Stability Tolerance		±1.5×10 ⁻⁶ max.(After 2 reflows)			
vs. Temperature		±2.5×10 ⁻⁶ max./ -30~+85°C ±2.5×10 ⁻⁶ max./ -40~+85°C (Option)		±1.5×10 ⁻⁶ max./ -30~+85°C ±1.5×10 ⁻⁶ max./ -40~+85°C (Option)	
vs. Supply Voltage		±0.2×10 ⁻⁶ max. (Vdd±5%)			
vs. Load Variation		±0.2×10 ⁻⁶ max. (10kΩ//10pF±10%)			
vs. Aging		±1.0×10 ⁻⁶ max. /year			
Start Up Time		2.0ms max.			
Frequency Control Control Sensitivity		±9×10 ⁻⁶ ~±15×10 ⁻⁶ / Vcont=+0.9V±0.6V		-	
Response Slope		Positive		-	
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		2000pcs./reel (φ 180)			

Consult our sales representative for other specifications.

Dimensions[mm]

