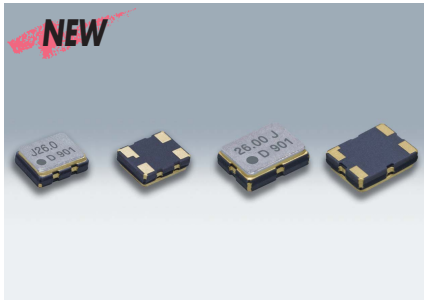


Ultra miniature and Low voltage SMD VC-TCXO/TCXO

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



■ 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



Actual size DSA221SE DSA321SE

■ Standard Specification

Type \ Item	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℃ ±2.5×10 ⁻⁶ max./ -40~+85℃ (Option)		±1.5×10 ⁻⁶ max./ -30~+85℃ ±1.5×10 ⁻⁶ max./ -40~+85℃ (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]

