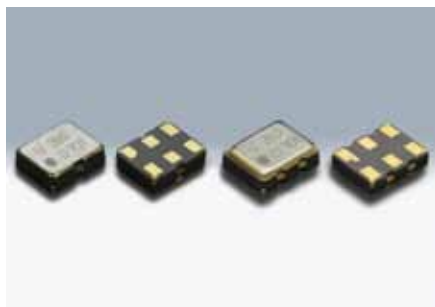


High-precision with dedicated temp. sensor SMD VC-TCXO/TCXO

DSA211SDT/DSA221SDT, DSB211SDT/DSB221SDT for GPS



Features

- Low voltage operation
- Low phase noise
- Analog temperature sensor output
- Single packaged structure
- Prevention of moisture packing is unnecessary
- Moisture Sensitivity Level : LEVEL 1 (IPC/JEDEC J-STD-033)

Applications

- GPS



[Type]

VC-TCXO	TCXO	Size
DSA211SDT	DSB211SDT	2016 size
DSA221SDT	DSB221SDT	2520 size

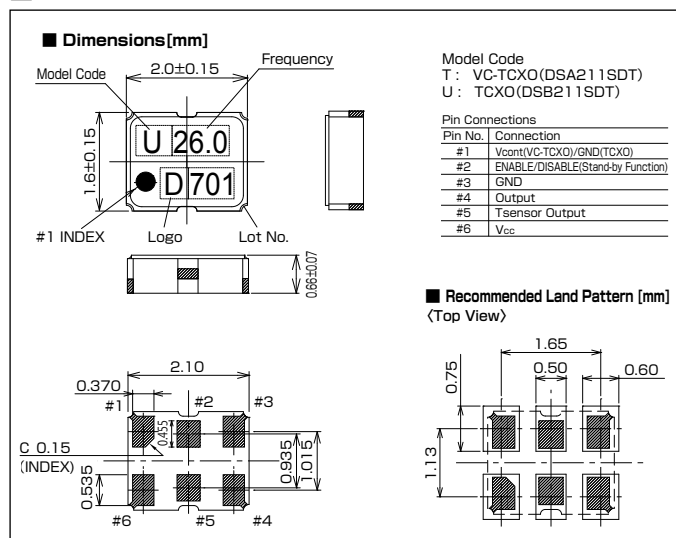
Actual size DSA211SDT DSA221SDT

Standard Specification

Standard Specification		VC-TCXO		TCXO	
		DSA211SDT	DSA221SDT	DSB211SDT	DSB221SDT
Item	Type				
Output Frequency Range		12.288~52 MHz	9.6~52 MHz	12.288~52 MHz	9.6~52 MHz
Standard Frequency		16.3676/ 16.367667/ 16.368/ 16.369/ 16.8/ 26/ 38.4 MHz			
Supply Voltage Range		+1.68~+3.5V			
Supply Voltage(Vcc)		+1.8V / +2.8 V / +3.0V / +3.3V			
Current Consumption		+1.5 mA max. (F≤26MHz)/+2.0 mA max. (F>26MHz)			
Stand-by Current		+3.0 μA max.			
Output Level		0.8 Vp-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		±1.0×10 ⁻⁶ max. / -30~+85℃ ±1.0×10 ⁻⁶ max. / -40~+85℃ (Option)		±0.5×10 ⁻⁶ max. / -30~+85℃ ±0.5×10 ⁻⁶ max. / -40~+85℃ (Option)	
vs. Supply Voltage		±0.2×10 ⁻⁶ max. (Vcc±5%)			
vs. Load Variation		±0.2×10 ⁻⁶ max.			
vs. Aging		±1.0×10 ⁻⁶ max. /year			
Start up Time		2.0ms max.			
Output Enable Time		2.0ms max.			
Frequency Control Control Sensitivity		±3.0×10 ⁻⁶ ~±5.0×10 ⁻⁶ / Vcont=+1.4V±1V @Vcc≥+2.6V ±3.0×10 ⁻⁶ ~±5.0×10 ⁻⁶ / Vcont=+0.9V±0.6V @Vcc=+1.8V		—	
Response Slope		Positive		—	
SSB Phase Noise		[f≤15MHz]	[15MHz<f≤26MHz]	[f>26MHz]	
Offset 100Hz		-115 dBc/Hz	-110 dBc/Hz	-105 dBc/Hz	
Offset 1kHz		-135 dBc/Hz	-130 dBc/Hz	-125 dBc/Hz	
Offset 10kHz		-145 dBc/Hz	-140 dBc/Hz	-135 dBc/Hz	
Offset 100kHz		-145 dBc/Hz	-145 dBc/Hz	-145 dBc/Hz	
Temp. Sensor Output		+0.950 V Typ.(Ta=+25℃) -8.70 mV/℃ Typ.			
Packing Unit		2000pcs./reel (φ180)			

Consult our sales representative for other specifications.

DSA211SDT/DSB211SDT



DSA221SDT/DSB221SDT

