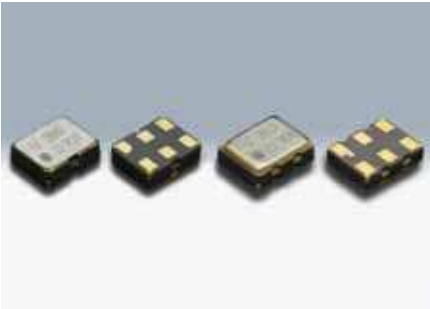


High-precision with dedicated temp. sensor SMD VC-TCXO/TCXO

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 |

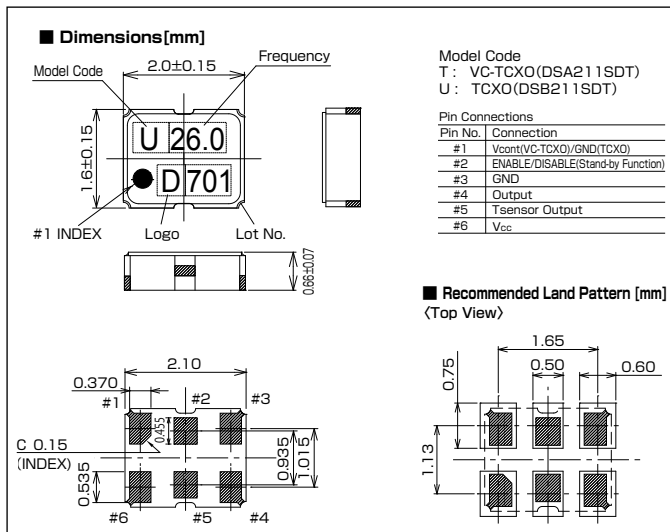
Actual size DSA211SDT
DSA221SDT

Standard Specification

| Item | Type | VC-TCXO | | TCXO | |
|---------------------------------------|------|--|-----------------|---|------------|
| | | DSA211SDT | DSA221SDT | DSB211SDT | DSB221SDT |
| Output Frequency Range | | 13~52 MHz | 9.6~52 MHz | 13~52 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°C ±1.0×10 ⁻⁶ max. / -40~+85°C (Option) | | ±0.5×10 ⁻⁶ max. / -30~+85°C ±0.5×10 ⁻⁶ max. / -40~+85°C (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°C) -8.70 mV/°C Typ. | | | |
| Packing Unit | | 2000pcs./reel (φ 180) | | | |

Consult our sales representative for other specifications.

DSA211SDT/DSB211SDT



DSA221SDT/DSB221SDT

