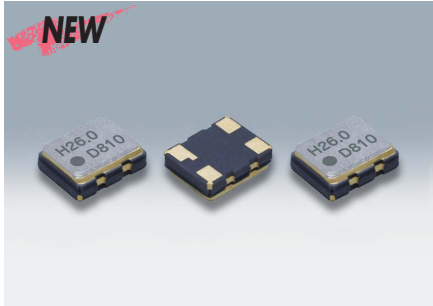


Ultra miniature and High-precision SMD TCXO

DSB221SDA/DSB221SDB for GPS / Industrial Radio system



Actual size

Features

- 2520 size, 0.8mm high. Ultra miniature and high-precision SMD TCXO(0.0045cc·0.02g)
- Low voltage. Supply voltage up to +1.7~+3.6V.
- Low phase noise
- Stand-by function(DSB221SDB)
- Single packaged structure
- Prevention of moisture packing is unnecessary
Moisture Sensitivity Level: LEVEL 1 (IPC/JEDEC J-STD-033)



Applications

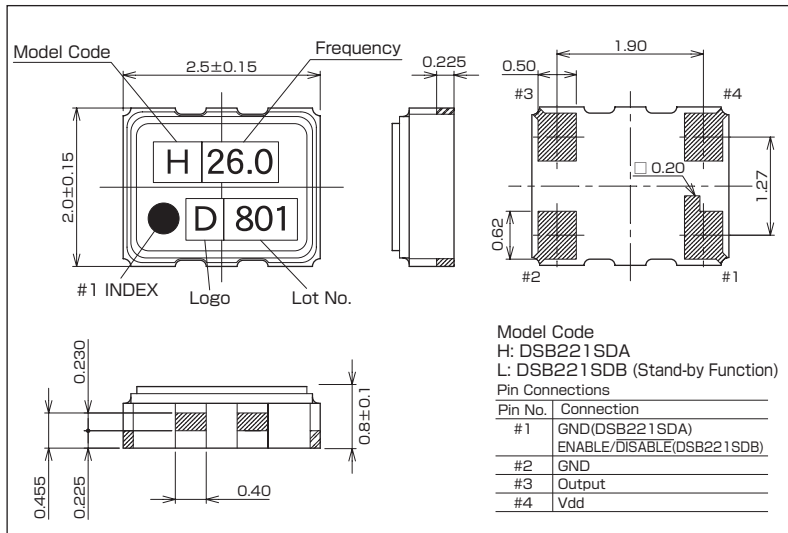
- GPS and Industrial radio communications

Standard Specification

Item	Type	DSB221SDA	DSB221SDB (Stand-by Function)
Output Frequency Range		9.6 to 40MHz	
Standard Frequency		16.3676/ 16.367667/ 16.368/ 16.369/ 16.8/ 18.414/ 24.5535/ 26/ 33.6MHz	
Supply Voltage (Vdd)		+1.8V / +2.8V / +3.0V / +3.3V	
Current Consumption		+1.4mA max. (f≤26MHz) / +1.6mA max. (f>26MHz)	
Stand-by current (#1 pin "L" Level)		—	1 μA max.
Output Voltage		0.8 Vp-p min. (Clipped Sinewave / DC-coupled)	
Output Load		10kΩ//10pF	
Frequency Stability Tolerance		±1.5×10 ⁻⁶ max.(After 2 reflows)	
vs. Temperature		±0.5×10 ⁻⁶ max./ -30 to +85deg.C ±0.5×10 ⁻⁶ max./ -40 to +85deg.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		2.0 msec. max.	
Output enable time		—	2.0 msec. max.
SSB Phase Noise		[f≤15MHz] -115 dBc/Hz (Offset 100Hz) -135 dBc/Hz (Offset 1kHz) -145 dBc/Hz (Offset 10kHz) -145 dBc/Hz (Offset 100kHz)	[15<f≤26MHz] -110 dBc/Hz (Offset 100Hz) -130 dBc/Hz (Offset 1kHz) -140 dBc/Hz (Offset 10kHz) -145 dBc/Hz (Offset 100kHz)
Packing Unit		2000pcs./reel (φ 180)	

Consult our sales representative for other specifications.

Dimensions[mm]



Recommended Land Pattern [mm]

