

High-precision SMD VC-TCXO/TCXO

DSA1612SDM/DSB1612SDM/DSB1612SDB



Actual size □

Features

- Low voltage operation
- Low phase noise
- Prevention of moisture packing is unnecessary
Moisture Sensitivity Level : LEVEL 1
(IPC/JEDEC J-STD-033)

Applications

- Mobile phone(W-CDMA, CDMA2000, TD-SCDMA, GSM, GPRS, Mobile W-PHS)
- Other wireless radio communications
- GPS
- Industrial radio communications
- Wearable devices



[Type]

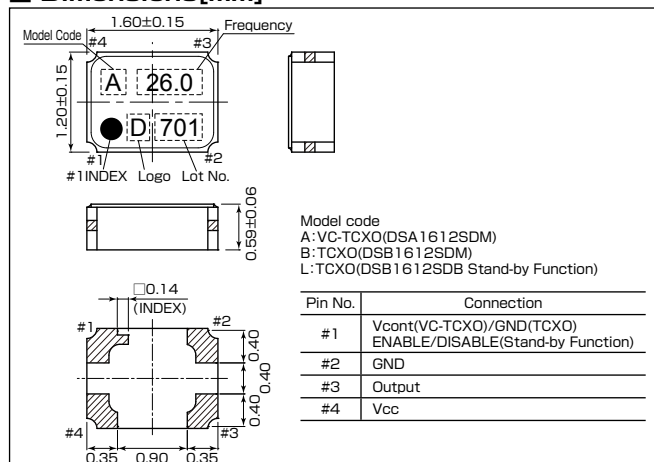
VC-TCXO	TCXO	TCXO (Stand-by Function)	Size
DSA1612SDM	DSB1612SDM	DSB1612SDB	1612 size

Standard Specification

Item	Type	VC-TCXO	TCXO	
		DSA1612SDM	DSB1612SDM	DSB1612SDB (Stand-by Function)
Output Frequency Range		19.2~52 MHz		
Standard Frequency		19.2/ 26/ 38.4/ 52MHz		
Supply Voltage Range		+1.68~+3.5V		
Supply Voltage (Vcc)		+1.8V / +2.6 V / +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		0.8Vp-p min. (Clipped Sinewave/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 , ±2.0×10 ⁻⁶ , ±2.5×10 ⁻⁶ max. / -30~+85°C ±1.0×10 ⁻⁶ , ±2.0×10 ⁻⁶ , ±2.5×10 ⁻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		
Frequency Control	Control Sensitivity	±3.0×10 ⁻⁶ ~±5.0×10 ⁻⁶ / Vcont=+1.4V±1V @Vcc≥+2.6V ±9.0×10 ⁻⁶ ~±15×10 ⁻⁶ / Vcont=+1.5V±1V @Vcc≥+2.6V ±3.0×10 ⁻⁶ ~±5.0×10 ⁻⁶ / Vcont=+0.9V±0.6V @Vcc=+1.8V ±9.0×10 ⁻⁶ ~±15×10 ⁻⁶ / Vcont=+0.9V±0.6V @Vcc=+1.8V		
	Response Slope	Positive		
Start Up Time		2.0 ms max.		
Output Enable Time		—		2.0 ms max.
SSB Phase Noise		[19.2MHz<f≤26MHz] [26MHz<f≤52MHz]		
	Offset 100Hz	- 110 dBc/Hz - 100 dBc/Hz		
	Offset 1kHz	- 130 dBc/Hz - 120 dBc/Hz		
	Offset 10kHz	- 140 dBc/Hz - 135 dBc/Hz		
	Offset 100kHz	- 145 dBc/Hz - 140 dBc/Hz		
Packing Unit		2000pcs./reel(φ180)		

Consult our sales representative for other specifications.

Dimensions[mm]



Recommended Land Pattern [mm]

