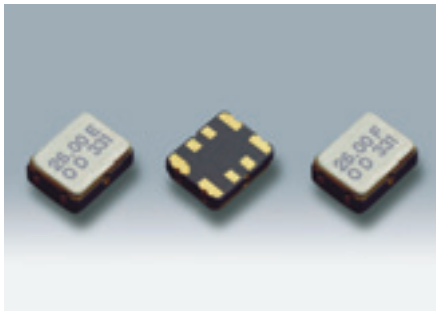
SMD (VC-) TCXO

DSA321SC/DSB321SC for Mobile communications



Actual size

Features

- 3225 size, 0.9 mm high miniature SMD VC-TCXO (0.008cc, 0.03g)
- Low voltage. Supply voltage up to +2.4±0.1V.
- Low current consumption
- Low phase noise
- Single packaged structure making the use of moisture-proof packaging unnecessary.
  Moisture Sensitivity Level: LEVEL 1 (IPC/JEDEC J-STD-033)

Pb-Free

RoHS Compliant

Applications

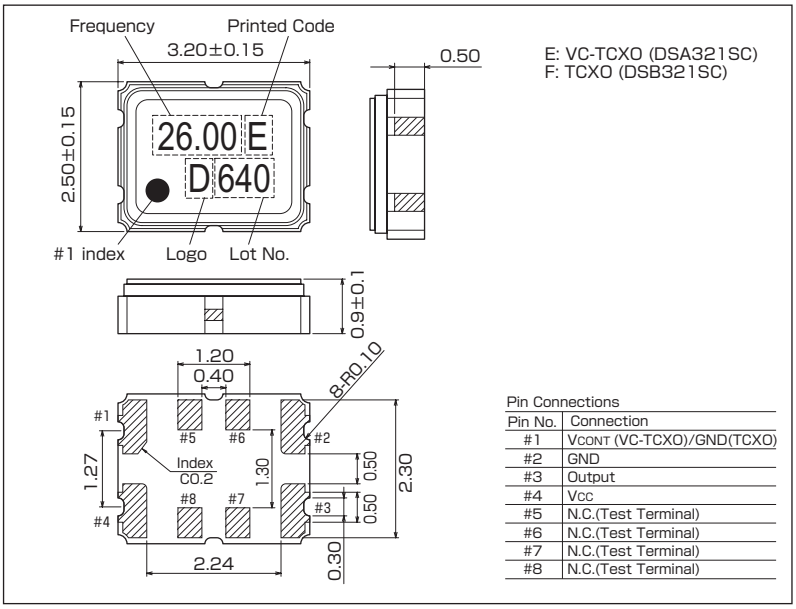
- Mobile phones (W-CDMA, CDMA2000, GSM, PCN, PCS, PHS)

Standard Specification

Item \ Type	DSA321SC (VC-TCXO)	DSB321SC (TCXO)
Output Frequency Range	9.6 MHz to 40 MHz	
Standard Frequency	12.6/ 13/ 14.4/ 16.8/ 19.2/ 19.68/ 19.8/ 20/ 26/ 38.4 MHz	
Supply Voltage	+2.6 V /+2.8 V / +3.0V	
Current Consumption	+1.3 mA max. (9.6≦F≦26MHz) / +1.5 mA max. (F>26MHz)	
Output Level	0.8 Vp-p min. (Clipped Sinewave / DC-coupled)	
Harmonics	-5dBc max.	
Output Load	10kΩ//10 pF	
Frequency Stability Tolerance	±1.5×10^{-6} max.(After 2 reflows)	
vs. Temperature	±2.0×10^{-6} max . / - 30 to +85 deg. C @CDMA ±2.5×10^{-6} max . / - 30 to +85 deg. C @GSM	
vs. Supply Voltage	±0.2×10^{-6} max. (Vcc ± 5%)	
vs. Load Variation	±0.2×10^{-6} max. (10 kΩ//10 pF ±10%)	
vs. Aging	±1.0×10^{-6} max. /year	
Start up Time	2.0 msec. max.	
Frequency Control Control Sensitivity	±5.5 to ±9.5×10^{-6} / Vcont =+1.4V ±1V @CDMA ±9 to ±15×10^{-6} / Vcont =+1.5V ±1V @GSM	–
Response Slope	Positive	–
Phase Noise	[F≦15MHz] −115 dBc/Hz (Offset 100Hz) −135 dBc/Hz (Offset 1kHz) −145 dBc/Hz (Offset 10kHz) −145 dBc/Hz (Offset 100kHz)	[15MHz<F≦26MHz] −110 dBc/Hz (Offset 100Hz) −130 dBc/Hz (Offset 1kHz) −140 dBc/Hz (Offset 10kHz) −145 dBc/Hz (Offset 100kHz)
		[F>26MHz] −105 dBc/Hz (Offset 100Hz) −125 dBc/Hz (Offset 1kHz) −135 dBc/Hz (Offset 10kHz) −145 dBc/Hz (Offset 100kHz)
Packing Unit	2000pcs./reel (φ180)	

Consult our sales representative for other specifications.

Dimensions[mm]



Pin Connections

Pin No.	Connection
#1	VCONT (VC-TCXO)/GND(TCXO)
#2	GND
#3	Output
#4	Vcc
#5	N.C.(Test Terminal)
#6	N.C.(Test Terminal)
#7	N.C.(Test Terminal)
#8	N.C.(Test Terminal)

Recommended Land Pattern [mm]

〈Top View〉

