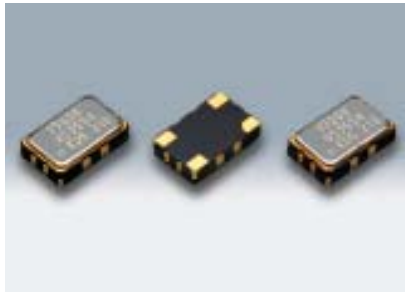


# SMD Type (VC-) TCXO

**DSA535SA/DSB535SA** for Mobile communications



Actual size

## ■ Features

- SMD-TCXO (0.024cc, 0.08g) with size 5032 and thickness 1.5mm. Miniature and lightweight.
- Low power.

## ■ Applications

- Mobile phones (W-CDMA, CDMA, GSM, PCN, PCS, PDC, PHS, etc.) and other mobile communications.

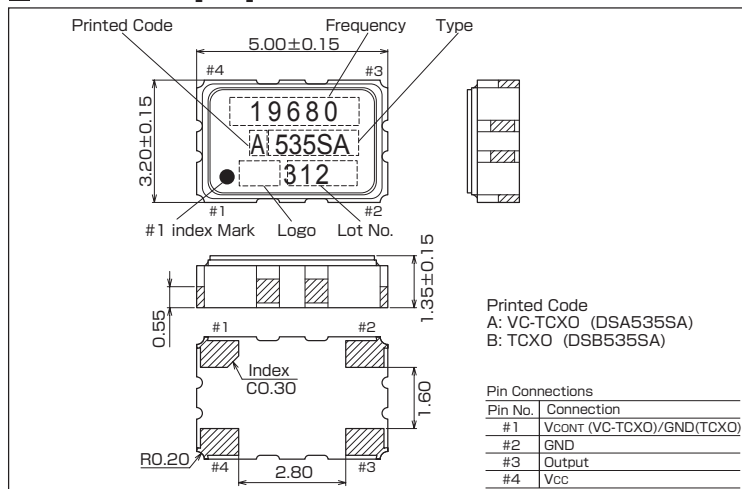
## ■ Generic Specification

Item	Type	DSA535SA(VC-TCXO)	DSB535SA(TCXO)
Output Frequency Range		10 MHz ~ 20 MHz	
Standard Frequency		10/ 12.6/ 12.8/ 13/ 14.4/ 14.85/ 16.8/ 19.2/ 19.68/ 19.8/ 20 MHz	
Supply Voltage		+3.0 V (+2.6 to +3.3V available)	
Current Consumption		+1.3 mA max. (F ≤ 15MHz) / +1.5 mA max. (F > 15MHz)	
Output Level		0.8 Vp-p min.	
Output Load		10kΩ//10 pF	
Frequency Stability		±1.5×10 <sup>-6</sup> (After 2 reflows)	
Frequency Tolerance			
Temperature Shift		±2.5×10 <sup>-6</sup> / -30~+85 °C	
Supply Voltage Shift		±0.2×10 <sup>-6</sup> (+3.0V±0.3V)	
Load Shift		±0.2×10 <sup>-6</sup> / (10kΩ//10pF) ±10%	
Aging Characteristics		±1.0×10 <sup>-6</sup> /year	
Start up Time		2.0 msec.max.	
Frequency Control		±9~ ±15×10 <sup>-6</sup> (Vcont+1.5V±1V)	-
Control Characteristics			
Extreme Characteristics of Frequency Shift		Positive	-
Phase Noise		[F ≤ 15MHz] - 110 dBc/Hz (Offset 100Hz) - 130 dBc/Hz (Offset 1kHz) - 145 dBc/Hz (Offset 10kHz) - 145 dBc/Hz (Offset 100kHz)	[F > 15MHz] - 105 dBc/Hz (Offset 100Hz) - 125 dBc/Hz (Offset 1kHz) - 140 dBc/Hz (Offset 10kHz) - 145 dBc/Hz (Offset 100kHz)

Packing Unit : 4000pcs./reel ( φ 330)

Consult our sales representative for other specifications.

## ■ Dimensions [mm]



## ■ Recommended Land Pattern

