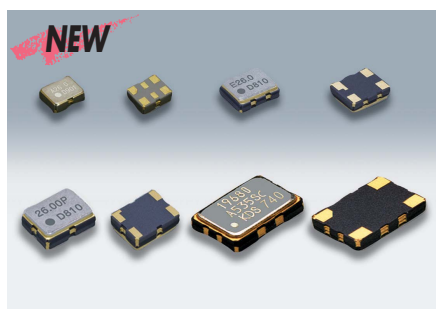


SMD VC-TCXO/TCXO

DSA211SCA/DSA221SCA/DSA321SCA/DSA535SC
DSB211SCA/DSB221SCA/DSB321SCA/DSB535SC for Mobile communications



Actual size DSA211SCA DSA221SCA DSA321SCA DSA535SC

Features

- Wide voltage range, Supply voltage up to +2.3~+5.5V
- Low phase noise
- Single packaged structure
- Prevention of moisture packing is unnecessary. Moisture Sensitivity Level: LEVEL 1 (IPC/JEDEC J-STD-033)



Applications

- Mobile phones (W-CDMA, CDMA2000, TD-SCDMA, GSM, GPRS, PHS)
- Other wireless radio communications (e.g. Mobile WiMAX)

[Type]

VC-TCXO	TCXO	Size
DSA211SCA	DSB211SCA	2016 size
DSA221SCA	DSB221SCA	2520 size
DSA321SCA	DSB321SCA	3225 size
DSA535SC	DSB535SC	5032 size

Standard Specification

Item	Type	VC-TCXO				TCXO				
		DSA211SCA	DSA221SCA	DSA321SCA	DSA535SC	DSB211SCA	DSB221SCA	DSB321SCA	DSB535SC	
Frequency Range		13~52MHz	9.6~52MHz	10~30MHz	13~52MHz	9.6~52MHz	10~30MHz	13~52MHz	9.6~52MHz	10~30MHz
Standard Frequency		13/ 19.2/ 20/ 26/ 38.4/ 40/ 52MHz		13/ 19.2/ 26MHz		13/ 19.2/ 20/ 26/ 38.4/ 40/ 52MHz		13/ 19.2/ 26MHz		13/ 19.2/ 26MHz
Supply Voltage (Vdd)		+2.6V/ +2.8V/ +3.0V/ +3.3V								
Current Consumption		+1.5mA max. (f≤26MHz) +2.0mA max. (f>26MHz)		+1.1mA max. (F≤15MHz) +1.3mA max. (F>15MHz)		+1.5mA max. (f≤26MHz) +2.0mA max. (f>26MHz)			+1.1mA max. (F≤15MHz) +1.3mA max. (F>15MHz)	
Output Level		0.8Vp-p min. (Clipped Sinewave / DC-coupled)								
Output Load		10kΩ//10pF								
Frequency Stability Tolerance		±1.5×10 ⁻⁶ max. (After 2 reflows)								
vs. Temperature		±2.0×10 ⁻⁶ max./ -30~+85°C @CDMA ±2.5×10 ⁻⁶ max./ -30~+85°C @GSM								
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		2.0ms max.								
Frequency Control Control Sensitivity		±7.8×10 ⁻⁶ ~ ±12×10 ⁻⁶ / Vcont=+1.4V±1V @CDMA ±9.0×10 ⁻⁶ ~ ±15×10 ⁻⁶ / Vcont=+1.5V±1V @GSM				-				
Response Slope		Positive				-				
Phase Noise		[f≤15MHz] [15<f≤26MHz] [26<f≤40MHz]	[f≤15MHz] [f≤15MHz]	[f≤15MHz] [f≤15MHz]	[f≤15MHz] [15<f≤26MHz] [26<f≤40MHz]	[f≤15MHz] [f≤15MHz]	[f≤15MHz] [f≤15MHz]	[f≤15MHz] [f≤15MHz]	[f≤15MHz] [f≤15MHz]	[f≤15MHz] [f≤15MHz]
Offset 100Hz		-115dBc/Hz -110dBc/Hz -105dBc/Hz	-110dBc/Hz -105dBc/Hz	-115dBc/Hz -105dBc/Hz	-115dBc/Hz -110dBc/Hz -105dBc/Hz	-110dBc/Hz -105dBc/Hz	-115dBc/Hz -105dBc/Hz	-110dBc/Hz -105dBc/Hz	-110dBc/Hz -105dBc/Hz	-110dBc/Hz -105dBc/Hz
Offset 1kHz		-135dBc/Hz -130dBc/Hz -125dBc/Hz	-130dBc/Hz -125dBc/Hz	-135dBc/Hz -125dBc/Hz	-135dBc/Hz -130dBc/Hz -125dBc/Hz	-130dBc/Hz -125dBc/Hz	-135dBc/Hz -125dBc/Hz	-130dBc/Hz -125dBc/Hz	-130dBc/Hz -125dBc/Hz	-130dBc/Hz -125dBc/Hz
Offset 10kHz		-145dBc/Hz -140dBc/Hz -135dBc/Hz	-145dBc/Hz -140dBc/Hz	-145dBc/Hz -140dBc/Hz	-145dBc/Hz -140dBc/Hz -135dBc/Hz	-140dBc/Hz -135dBc/Hz	-145dBc/Hz -140dBc/Hz	-140dBc/Hz -135dBc/Hz	-140dBc/Hz -135dBc/Hz	-140dBc/Hz -135dBc/Hz
Offset 100kHz		-145dBc/Hz -145dBc/Hz -145dBc/Hz	-145dBc/Hz -145dBc/Hz	-145dBc/Hz -145dBc/Hz	-145dBc/Hz -145dBc/Hz -145dBc/Hz	-145dBc/Hz -145dBc/Hz	-145dBc/Hz -145dBc/Hz	-145dBc/Hz -145dBc/Hz	-145dBc/Hz -145dBc/Hz	-145dBc/Hz -145dBc/Hz
Packing Unit		2000pcs./reel (φ180)		4000pcs./reel (φ330)		2000pcs./reel (φ180)			4000pcs./reel (φ330)	

Consult our sales representative for other specifications.