

High-precision SMD VC-TCXO/TCXO <For Automotive> DA2016AS/DA2520AS, DB2016AS/DB2520AS

NEW



Actual size 

Features

- Supply Voltage : 1.8V/2.6V/2.8V/3.0V/3.3V
- Available Frequency : 26MHz, 52MHz
- Clipped sine output
- Low phase noise
- Single package structure
- AEC-Q200 Compliant (Option: Equivalent to AEC-Q100)

Applications

- Telematics, satellite radio



Pb-Free



RoHS Compliant

Standard Specification

Item	Type	VC-TCXO		TCXO	
		DA2016AS	DA2520AS	DB2016AS	DB2520AS
Standard Frequency		26MHz/52MHz			
Supply Voltage Range		+1.68 to +3.5V			
Supply Voltage		+1.8V/+2.6V/+2.8V/+3.0V+3.3V			
Current Consumption		+1.5mA max. (26MHz) / +2.0mA max. (52MHz)			
Output Level		0.8Vp-p min. (Clipped sine / DC-coupled)			
Output Load		10kΩ//10pF			
Frequency Stability		±1.5×10 ⁻⁶ max. (After 2 reflows)			
Tolerance		±1.5×10 ⁻⁶ max. (After 2 reflows)			
vs. Temperature		±1.0×10 ⁻⁶ , ±2.5×10 ⁻⁶ max. / -30 to +85℃ ±1.0×10 ⁻⁶ , ±2.5×10 ⁻⁶ max. / -40 to +85℃ (Option)		±0.5×10 ⁻⁶ , ±2.5×10 ⁻⁶ max. / -30 to +85℃ ±0.5×10 ⁻⁶ , ±2.5×10 ⁻⁶ max. / -40 to +85℃ (Option)	
vs. Supply Voltage		±0.2×10 ⁻⁶ max. (Vcc ±5%)			
vs. Load Variation		±0.2×10 ⁻⁶ max. (10kΩ//10pF ±10%)			
vs. Aging		±1.0×10 ⁻⁶ max. /year			
Frequency Control					
Control Sensitivity		±3.0×10 ⁻⁶ , ±5.0×10 ⁻⁶ /Vcont=+1.4V±1.0V @Vcc≥+2.6V ±3.0×10 ⁻⁶ , ±5.0×10 ⁻⁶ /Vcont=+0.9V±0.6V @Vcc=+1.8V		—	
Response Slope		Positive		—	
Start up Time		2.0ms max.			
Phase Noise		[26MHz]		[52MHz]	
Offset 100Hz		-115dBc/Hz max.		-105dBc/Hz max.	
Offset 1kHz		-130dBc/Hz max.		-125dBc/Hz max.	
Offset 10kHz		-150dBc/Hz max.		-145dBc/Hz max.	
Offset 100kHz		-155dBc/Hz max.		-150dBc/Hz max.	
Reliability		AEC-Q100/AEC-Q200			
Packing Unit (1)		3000pcs./reel (ø180)			

(1) Moisture prevention packing is unnecessary.

Moisture Sensitivity Level:Level1 (IPC/JEDEC J-STD-033)

Consult our sales representative for other specifications

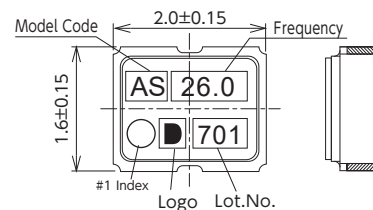
DA2016AS/DB2016AS

[mm]

DA2520AS/DB2520AS

[mm]

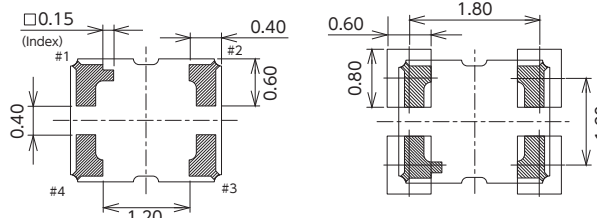
Dimensions



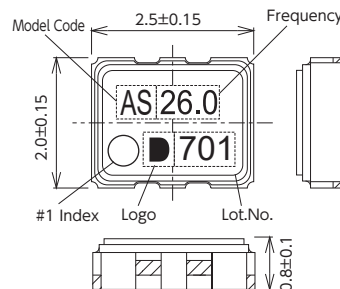
Pin Connections

Pin No.	Connection
#1	Vcont (VC-TCXO)/ GND (TCXO)
#2	GND
#3	Output
#4	Vcc

Recommended Land Pattern <Top View>



Dimensions



Model Code
DA2520AS : AS (VC-TCXO)
DB2520AS : BS (TCXO)

Pin Connections

Pin No.	Connection
#1	Vcont (VC-TCXO)/GND (TCXO)
#2	GND
#3	Output
#4	Vcc

Recommended Land Pattern <Top View>

