

SMD Type Voltage Controlled Crystal Oscillators

DSV321S SERIES



Actual size

Features

- 3225size, 1.1mm high, ultra miniature SMD-VCXO (0.009cc).
- DSV321SV is miniature, but ensures enough frequency adjustment ranges.
The product is analog type VCXO, with frequencies which varies linearly.
- DSV321ST has a frequency shifting function.
The interference of mobile phones (caused by higher harmonics) are prevented by applying the frequency shifting function to the clock of mobile phones.
- Low current consumption



Lead-Free

Applications

- DVD, digital TV, STB, BB modems and backbone transmission equipment
- Camera module for mobile phones and clock signal generator for mobile phones

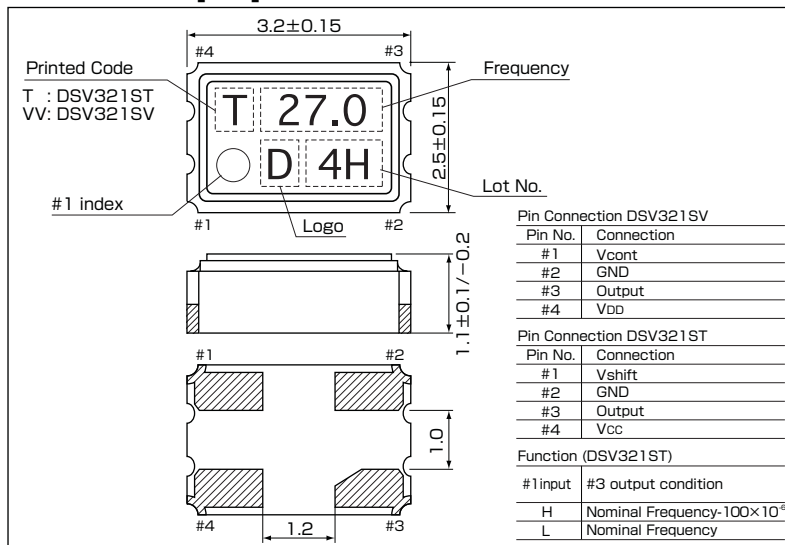
Standard Specification

Item		Type	Legend	DSV321SV	DSV321ST (Frequency Adjustment model)
Standard Characteristics	Output Frequency Range		F _o	6.75~90MHz	26.057MHz, 27.000MHz, 28.260MHz
	Supply Voltage		V _{cc}	+3.3V±0.3V	+2.85V±0.25V
	Frequency Control Voltage			V _{cont} =+1.65V±1.65V	V _{IH} =+2.3V min., V _{IL} =+0.3V max.
	Storage Temperature Range		T _{stg}	-40°C~85°C	-55°C~125°C
	Operating Temperature Range		T _{opr}	-10°C~60°C	-20°C~75°C
	Frequency Stability		ΔF	±50×10 ⁻⁶ min.	±51×10 ⁻⁶ max. [Vshift="L" level]
	Frequency Adjustment Range		V _{cntr}	±90×10 ⁻⁶ min. [Positive Slope] (V _{cont} =1.65V±1.65V)	-
			ΔF _{vs}	-	-101×10 ⁻⁶ min. [Relative deviation at Vshift="H", based on Vshift="L"]
Current Consumption		I _{cc}	5mA max. (6.75<F _o ≤40MHz), 8mA max. (40<F _o ≤54MHz) 12mA max. (54<F _o ≤90MHz) [When no load is applied]	2mA max.	
Output Characteristics	Output Level		V _{out}	-	0.75V min. [Peak-to-Peak]
	"0" Level		V _{oL}	V _{DD} ×0.1 max.	-
	"1" Level		V _{oH}	V _{DD} ×0.9 min.	-
	Symmetry		Symmetry	40%~60% [V _{DD} ×0.5 Level]	40%~60% [AC-DUTY]
	Rise and Fall Time		T _r , T _f	10ns max. (6.75<F _o ≤40MHz), 6ns max. (40<F _o ≤54MHz) 4ns max. (54<F _o ≤90MHz) [V _{DD} ×0.1~V _{DD} ×0.9]	-
	Output Load		Load	15pF	10kΩ//10pF
	Output		-	C-MOS	Clipped sign

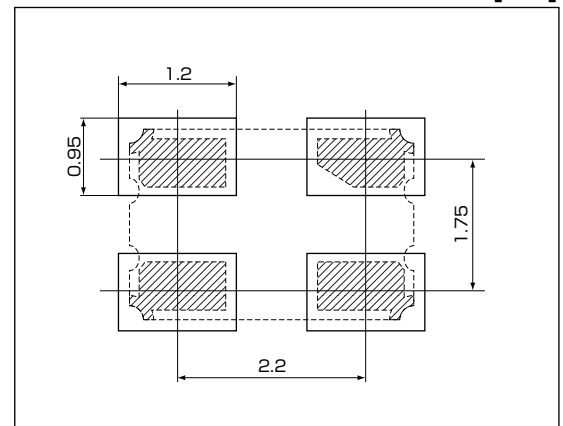
Packing Unit : 1000pcs./reel (φ 180)

Consult our sales representative for other specifications.

Dimensions [mm]



Recommended Land Pattern [mm]



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