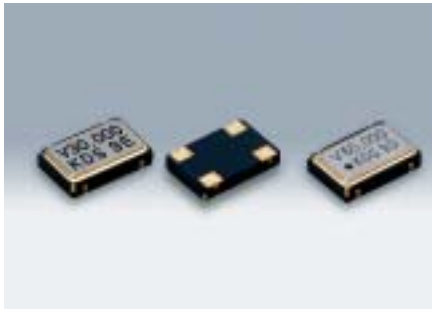


# SMD Type Crystal Oscillators

## DS0751S SERIES Low Voltage Type



Actual size

### ■ Features

- Features a package size of 7.3×4.9×1.7, miniature SMD-SPXO
- 3.3V operation, high speed (0.5MHz to 120MHz)
- $\Delta f/F_0 \leq \pm 30 \times 10^{-6}$  version is designed for visual applications. Available with fundamental frequencies of 28.636MHz, 28.375MHz and 14.318MHz.



Lead-Free

### ■ Applications

- PC, peripherals, visual applications and other equipment

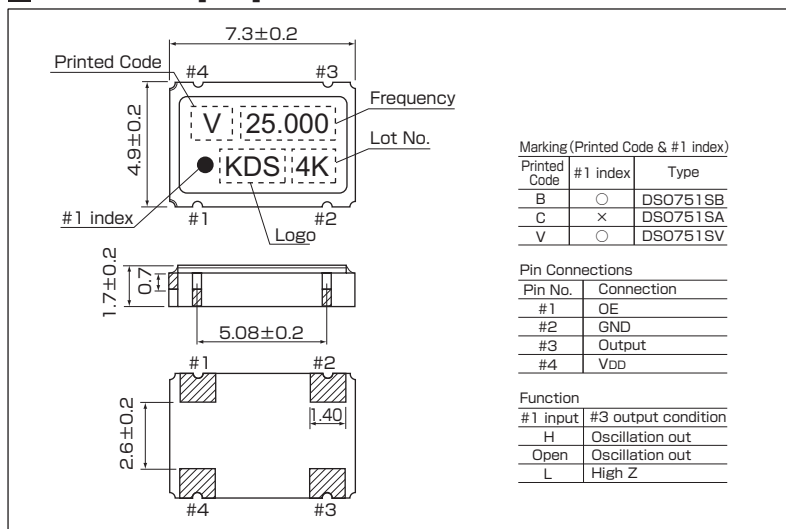
### ■ Standard Specification

Item	Type	Legend	DS0751SV	Condition
Standard Characteristics	Output Frequency Range	F <sub>0</sub>	0.5MHz~120MHz	
	Frequency Stability	$\Delta f/F_0$	$\pm 50 \times 10^{-6}$ , $\pm 100 \times 10^{-6}$	-10~+70°C, Includes frequency tolerance at room temperature.
	Supply Voltage	V <sub>DD</sub>	+3.3V±0.3V	
	Operating Temperature Range	T <sub>OPR</sub>	-10°C~+70°C	
	Current Consumption 1	I <sub>DD1</sub>	25mA max. (F <sub>0</sub> ≤67MHz) 45mA max. (67MHz<F <sub>0</sub> ≤100MHz) 60mA max. (F <sub>0</sub> >100MHz)	When no load is applied.
	Current Consumption 2 (1 pin, "L"Level)	I <sub>DD2</sub>	20μA max.	High impedance output.
Output Characteristics	Output Disable Time	T <sub>PLZ</sub>	100nsec. max.	
	Output Enable Time	T <sub>PZL</sub>	5msec. max.	
	Symmetry	Symmetry	45~55% (F <sub>0</sub> ≤10MHz), 40~60% (F <sub>0</sub> >10MHz)	V <sub>DD</sub> ×0.5 Level
	Rise and Fall Time	T <sub>r</sub> , T <sub>f</sub>	10nsec. max. (F <sub>0</sub> ≤50MHz) 7nsec. max. (50MHz<F <sub>0</sub> ≤67MHz) 5nsec. max. (F <sub>0</sub> >67MHz)	V <sub>DD</sub> ×0.1~V <sub>DD</sub> ×0.9
	"0" Level	V <sub>OL</sub>	V <sub>DD</sub> ×0.1 max.	
	"1" Level	V <sub>OH</sub>	V <sub>DD</sub> ×0.9 min.	
Input Characteristics	Load Condition(C-MOS)	C <sub>L</sub>	30pF max. (F <sub>0</sub> ≤100MHz), 15pF max. (F <sub>0</sub> >100MHz)	
	Input Voltage Level	V <sub>IL</sub> / V <sub>IH</sub>	V <sub>IL</sub> =+0.6V max. / V <sub>IH</sub> =+2.3V min.	
	Input Current	I <sub>IL</sub> / I <sub>IH</sub>	I <sub>IL</sub> =-100μA max. / I <sub>IH</sub> =+100μA max.	

Packing Unit : 1000pcs./reel (φ 254)

Consult our sales representative for other specifications.

### ■ Dimensions[mm]



### ■ Recommended Land Pattern [mm]

