SMD Type Crystal Oscillators

DSO753SV, DSO753SK (LVPECL outputs)

Actual size

Features

- Features a package size of 7.3×4.9×1.5, miniature SMD-SPXO
- 3.3V operation, super high speed (90MHz to 140MHz)
- Tri-state function
- LVPECL Output (DSO753SK)

Lead-Free

Applications

- PC, peripherals, and other appliances

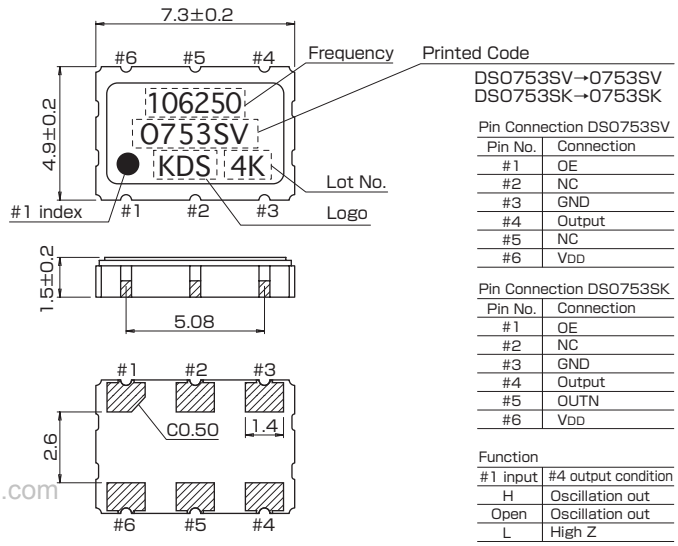
Standard Specification

Item		Legend	DSO753SV	DSO753SK	Condition
Standard Characteristics	Output Frequency Range	Fo	90MHz～140MHz		
	Frequency Stability	△f/Fo	±50×10^{-6}, ±100×10^{-6}		−10～+70℃, Includes frequency tolerance at room temperature.
	Supply Voltage	VDD	+3.3V±0.3V	+3.3V±0.165V	
	Operating Temperature Range	TOPR	−10～+70℃		
	Current Consumption 1	IDD1	60mA max.	90mA max.	When no load is applied.
	Current Consumption 2 (1pin, "L" Level)	IDD2	0.01mA max.	0.03mA max.	High impedance output/ Oscillation stop
Output Characteristics	Output Disable Time	TPLZ	200nsec. max.		
	Output Enable Time	TPZL	5msec. max.		
	Symmetry 1	Symmetry 1	40%～60%		SV : VDD×0.5 Level SK : +2.0V Level
	Symmetry 2	Symmetry 2	−	40%～60%	SK : Measured at the crossing point of output
	Rise and Fall Time	Tr, Tf	3nsec. max.	1nsec. max.	SV : VDD×0.1～VDD×0.9 Level SK : output amplitude×0.2～output amplitude×0.8 Level
	"0" Level	VOL	VDD×0.1 min.	1.490V～1.680V	
	"1" Level	VOH	VDD×0.9 min.	2.275V～2.420V	
	Load Condition(C-MOS)	CL	15pF max.	−	
Input Characteristics	Input Voltage Level	VIL / VIH	VIL=VDD×0.3 max. VIH=VDD×0.7 min.	VIL=VDD×0.3 max. VIH=VDD×0.7 min.	
	Input Current	IIL / IIH	IIL=−100μA max. / IIH=+100μA max.		

Packing Unit : 1000pcs./reel (φ254)

Consult our sales representative for other specifications.

Dimensions[mm]



DSO753SV→0753SV
DSO753SK→0753SK

Pin Connection DSO753SV

Pin No.	Connection
#1	OE
#2	NC
#3	GND
#4	Output
#5	NC
#6	VDD

Pin Connection DSO753SK

Pin No.	Connection
#1	OE
#2	NC
#3	GND
#4	Output
#5	OUTN
#6	VDD

Function

#1 input	#4 output condition
H	Oscillation out
Open	Oscillation out
L	High Z

Recommended Land Pattern [mm]