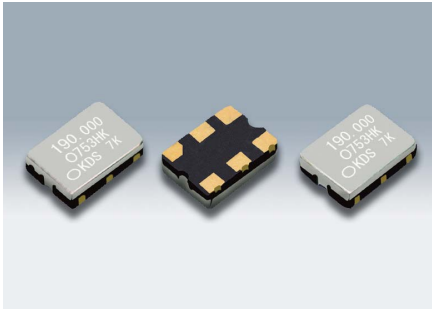


# SMD Crystal Oscillators

## DS0753H SERIES



Actual size

### ■ Features

- Available with three types of output functions: CMOS, PECL, LVDS
- Differential output (PECL, LVDS)
- Low jitter
- 3-state function



### ■ Applications

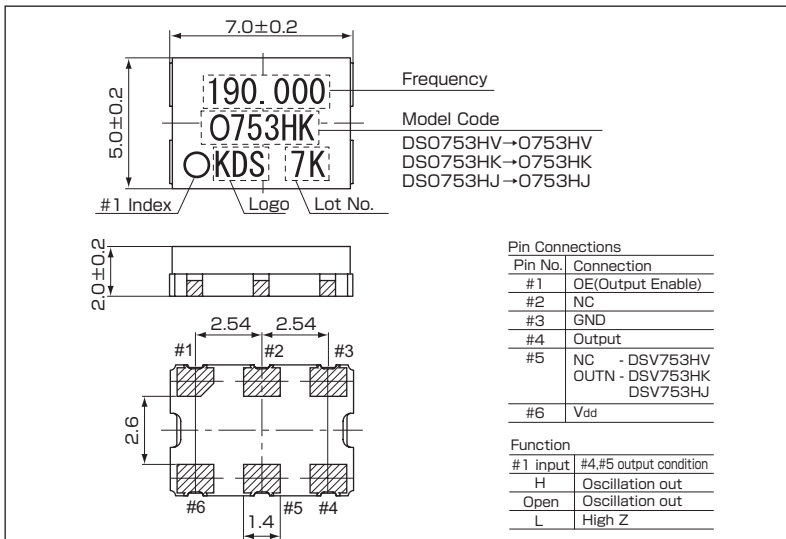
- Optical transmission device, radio transmitter-receiver equipment

### ■ Standard Specification

Item	Type	Legend	DS0753HV	DS0753HK	DS0753HJ
Output Specification		—	CMOS	LV-PECL	LVDS
Output Frequency Range		fo	150~230MHz	160~230MHz	160~230MHz
Supply Voltage		V <sub>dd</sub>	+3.3±0.165V		
Storage Temperature Range		T <sub>stg</sub>	-40~85°C		
Operating Temperature Range		T <sub>use</sub>	-20~70°C		
Frequency Tolerance		f <sub>tol</sub>	±50×10 <sup>-6</sup> max.		
Current Consumption		I <sub>dd</sub>	50mA max.	80mA max.	60mA max.
Output Load		L <sub>CMOS</sub>	15pF max.	50Ω to V <sub>dd</sub> -2V	100Ω Output-OUTN
Symmetry		SYM	45~55%[50% V <sub>dd</sub> Level]		
Rise and Fall Time		tr, tf	2.0ns max.[10~90% V <sub>dd</sub> Level]		
0 Level Output Voltage		V <sub>ol</sub>	V <sub>dd</sub> ×0.1 max.	V <sub>dd</sub> -1.025~V <sub>dd</sub> -0.88V	—
1 Level Output Voltage		V <sub>oh</sub>	V <sub>dd</sub> ×0.9 min.	V <sub>dd</sub> -1.81~V <sub>dd</sub> -1.62V	—
Differential Output Voltage		V <sub>OD1</sub> , V <sub>OD2</sub>	—	—	0.247~0.454V
Change to V <sub>OD</sub>		ΔV <sub>OD</sub>	—	—	50mV[ΔV <sub>OD</sub> = V <sub>OD1</sub> -V <sub>OD2</sub>  ]
Offset Voltage		V <sub>OS1</sub> , V <sub>OS2</sub>	—	—	1.125~1.375V
Change to V <sub>OS</sub>		ΔV <sub>OS</sub>	—	—	100mV[ΔV <sub>OS</sub> = V <sub>OS1</sub> -V <sub>OS2</sub>  ]
Output Enable Time		T <sub>pzl</sub>	2ms max.		
Output Disable Time		T <sub>plz</sub>	200ns max.		
OE Pin 0 Level Input Voltage		V <sub>il</sub>	V <sub>dd</sub> ×0.7 min.		
OE Pin 1 Level Input Voltage		V <sub>ih</sub>	V <sub>dd</sub> ×0.3 max.		
Packing Unit			100pcs. / reel or 500pcs. / reel (φ 180)		

Consult our sales representative for other specifications.

### ■ Dimensions[mm]



### ■ Recommended Land Pattern [mm]

