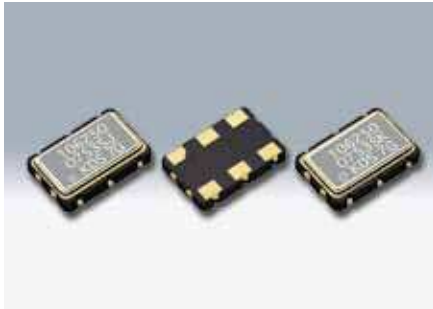


SMD Crystal Oscillators

DSO753S SERIES



■ Features

- Package size: 7.3×4.9×1.5mm
- 2.5V/3.3V operating voltage, High speed type(13.5 to 212.5MHz)
- 3-state function
- LV-PECL output(DSO753SK)
- LVDS output(DSO753SJ)
- HCSL output(DSO753SD)

■ Applications

- Sever, FC-HBA



Actual size

■ Standard Specification

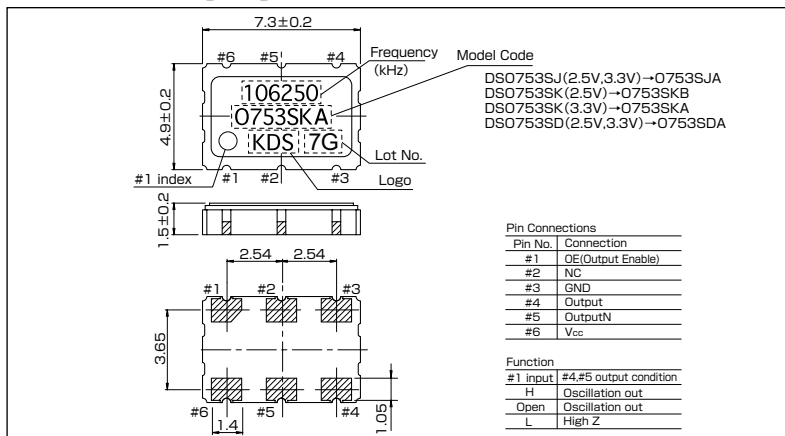
Item	Type	Legend	DSO753SK	DSO753SJ	DSO753SD
Output Specification	-		LV-PECL	LVDS	HCSL
Output Frequency Range	fo		13.5~212.5MHz		
Supply Voltage	Vcc		+2.5±0.125V/+3.3±0.165V		
Frequency Tolerance(Includes frequency tolerance at room temperature.)	f_tol		±50×10 ⁻⁶ max., ±100×10 ⁻⁶ max.		
Storage Temperature Range	T_stg		-40~+85°C		
Operating Temperature Range	T_use		-10~+70°C, -40~+85°C		
Current Consumption	Icc		45mA max. (fo≤170MHz), 50mA max. (170<fo≤212.5MHz)	20mA max.	30mA max. (fo≤170MHz), 35mA max. (170<fo≤212.5MHz)
Stand-by Current (#1 pin "L"level)	I_std		10μA max.		
Load Resistance	Load-R		50Ω to Vcc-2V	100Ω (Output-OutputN)	50Ω
Symmetry	SYM		45~55% [at outputs cross point]		
0 Level Output Voltage	VoL		Vcc-1.81~Vcc-1.62V	-	-0.15V~0.15V
1 Level Output Voltage	VoH		Vcc-1.025~Vcc-0.88V	-	0.58V~0.85V
Rise and Fall Time	tr, tf		0.5ns max. [20~80% Output,OutputN]	0.4ns max. [20~80% Output-OutputN]	0.5ns max. [0.175~0.525V Level]
Differential Output Voltage	Vod1, Vod2		-	0.247~0.454V	-
Change to V _{od}	ΔVOD		-	50mV [ΔVOD= Vod1-Vod2]	-
Offset Voltage	Vos		-	1.125~1.375V	-
Offset to Vos	ΔVOS		-	50mV	-
Crossing Point Voltage	Vcr		-	-	250~550mV
OE Pin 0 Level input Voltage	ViL		Vcc×0.3max.		
OE Pin 1 Level input Voltage	ViH		Vcc×0.7min.		
Output Disable Time	tPLZ		200ns		
Output Enable Time	tPZL		2ms		
Period Jitter(1)	tRMS		5ps typ. (13.5≤fo<27MHz) / 2.5ps typ. (27≤fo<212.5MHz) (σ)		
	tp-p		33ps typ. (13.5≤fo<27MHz) / 22ps typ. (27≤fo<212.5MHz) (Peak to peak)		
Total Jitter(1)	tTL		50ps typ. (13.5≤fo<27MHz) / 35ps typ. (27≤fo<212.5MHz) [tDJ + n*tRJ n=14.1(BER=1*10 ⁻¹²) (2)]		
Phase Jitter	tpj		1.5ps max. (13.5≤fo<27MHz) / 1ps max. (27≤fo<212.5MHz) [13.5≤fo<40MHz,fo offset:12kHz~5MHz fo≥40MHz,fo offset:12kHz~20MHz]		
Packing Unit			1000pcs./reel(φ254)		

(1) Measured WAVECREST DTS-2075

(2) tDJ: Deterministic jitter tRJ: Random jitter

Consult our sales representative for other specifications.

■ Dimensions[mm]



■ Recommended Land Pattern [mm]

