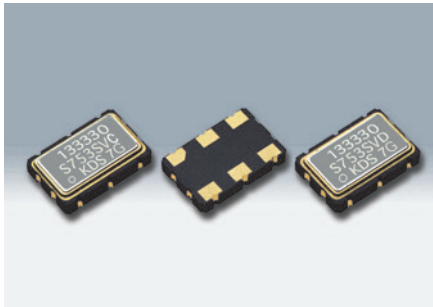


SMD Crystal Oscillators with Spread Spectrum Function

DSS753SVC/DSS753SVD



Actual size

■ Features

- EMI reduction by Spread Spectrum Technology
- Modulation rate can be selected by #2/#5 terminal.
- 3-state function

■ Applications

- Printer, facsimile, scanner, DSC, LCD



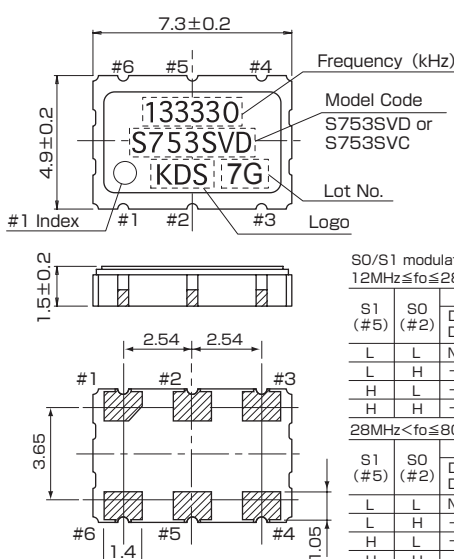
■ Standard Specification

Item	Type	Legend	DSS753SVC	DSS753SVD
Modulation Type	—	—	Center Spread	Down Spread
Modulation Width	—	—	$\pm 0.5\%$, $\pm 1\%$, $\pm 2\%$	-1% , -2% , -4%
Modulation rate can be selected by S0(#2pin)/S1(#5pin) terminal				
Output Frequency Range	f _o	—	12~168MHz	—
Supply Voltage	V _{cc}	—	+3.3V \pm 0.3V	—
Storage Temperature Range	T _{stg}	—	-40~+125°C	—
Operating Temperature Range	T _{use}	—	-10~+70°C	—
Frequency Tolerance	f _{tol}	—	$\pm 100 \times 10^{-6}$ max. (S1="L"&S0="L")	
Current Consumption	I _{cc}	—	30mA max.	—
Stand-by Current(#1 pin "L" Level)	I _{std}	—	0.02mA max.	—
Load Condition	L _{CMOS}	—	15pF max.	—
Symmetry	SYM	—	40~60% (50% V _{cc} Level)	—
0 Level Output Voltage	V _{OL}	—	V _{cc} \times 0.2 max.	—
1 Level Output Voltage	V _{OH}	—	V _{cc} \times 0.8 min.	—
Rise and Fall Time	tr, tf	—	4ns max. (20~80% V _{cc} Level)	—
Output Disable Time	t _{PLZ}	—	10ns max.	—
Output Enable Time	t _{PZL}	—	10ms max.	—
Input Voltage Level	V _{IL} /V _{IH}	—	V _{cc} \times 0.2 max. / V _{cc} \times 0.8 min.	
Packing Unit	—	—	1000pcs./reel (ϕ 254)	

Consult our sales representative for other specifications.

[mm]

■ Dimensions



Pin Connections

Pin No.	Connection
#1	OE (Output Enable)
#2	S0
#3	GND
#4	Output
#5	S1
#6	V _{cc}

Function

#1 Input	#4 Output condition
H	Oscillation out
Open	Oscillation out
L	High Z

S0/S1 modulation rate setting
12MHz \leq f_o \leq 28MHz, 80MHz<f_o \leq 168MHz

S1 (#5)	S0 (#2)	Rate (%)	
		Down Spread DSS753SVD	Center Spread DSS753SVC
L	L	No modulation	No modulation
L	H	-1.0	± 0.5
H	L	-2.0	± 1.0
H	H	-4.0	± 2.0
			Default

28MHz<f_o \leq 80MHz

S1 (#5)	S0 (#2)	Rate (%)	
		Down Spread DSS753SVD	Center Spread DSS753SVC
L	L	No modulation	No modulation
L	H	-1.0	± 0.5
H	L	-4.0	± 2.0
H	H	-2.0	± 1.0
			Default

■ Recommended Land Pattern

<Top View>

