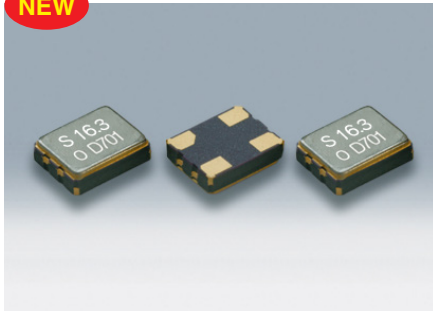


SMD Crystal Oscillators

DSO321SRS

NEW



Actual size

Features

- Fast output enable time : 200ns
- 3-state function
- Supply Voltage : 3.3V
- Available frequency range : 8.25 to 66MHz
- CMOS Level Output

Applications

- Visual applications, Sever, SSD
- Industrial equipment

[Function Code]

DSO321SRS

A : 3.3V

A A

- A : $\pm 100 \times 10^{-6}$
- B : $\pm 50 \times 10^{-6}$
- C : $\pm 30 \times 10^{-6}$
- D : $\pm 25 \times 10^{-6}$
- E : $\pm 20 \times 10^{-6}$



一般仕様

Item	Function Code		Output Frequency Range (MHz)	Legend	Spec.				Condition	
	Supply Voltage	Frequency tolerance			min.	typ.	max.	Unit		
Supply Voltage	A	*	$8.25 \leq f_0 \leq 66$	V _{cc}	+3.0	+3.3	+3.6	V		
Frequency Tolerance (Includes frequency tolerance at room temperature)	*	A	*	f _{tol}	-100	-	+100	$\times 10^{-6}$	-40 to +100°C	-10 to +70°C (Standard Operating Temperature Range)
		B			-50	-	+50			
		C			-30	-	+30			
		D			-25	-	+25			
		E			-20	-	+20			
Current Consumption	A	*	$33 < f_0 \leq 66$	I _{cc}	-	-	4.8	mA	No Load	
			$16.5 < f_0 \leq 33$		-	-	4.1			
			$8.25 \leq f_0 \leq 16.5$		-	-	3.7			
Stand-by Current (#1 pin "L" Level)	A	*	$33 < f_0 \leq 66$	I _{std}	-	-	3.8	mA	No Load	
			$16.5 \leq f_0 \leq 33$		-	-	2.9			
			$8.25 \leq f_0 < 16.5$		-	-	2.4			
Load Condition	*	*	*	L _{CMOS}	-	-	15	pF		
Symmetry	*	*	*	SYM	45	50	55	%	at 50% V _{cc}	
0 Level Output Voltage	*	*	*	V _{OL}	-	-	V _{cc} ×0.1	V		
1 Level Output Voltage	*	*	*	V _{OH}	V _{cc} ×0.9	-	-	V		
Rise and Fall Time	*	*	*	tr, tf	-	-	10	ns	10 to 90% V _{cc} Level	
OE Pin 0 Level Input Voltage	*	*	*	V _{IL}	-	-	V _{cc} ×0.2	V		
OE Pin 1 Level Input Voltage	*	*	*	V _{IH}	V _{cc} ×0.8	-	-	V		
Output Disable Time	*	*	*	t _{PLZ}	-	-	100	ns		
Output Enable Time	*	*	*	t _{PZL}	-	-	200	ns		
Period Jitter (1)	*	*	*	t _{RMS}	-	2.2	-	ps	σ	
	*	*	*	t _{p-p}	-	20	-		Peak to peak	
Total Jitter (1)	*	*	*	t _{TL}	-	31	-	ps	t _{DJ} +n×t _{RJ} n=14.1 (BER=1×10 ⁻¹²) (2)	
Phase Jitter	*	*	$40 \leq f_0 \leq 66$	tpj	-	-	1		fo offset: 12kHz to 20MHz	
			$10 \leq f_0 < 40$						fo offset: 12kHz to 5MHz	
Packing Unit (3)	2000pcs./reel (φ 180)									

(1) Measured WAVECREST DTS-2075

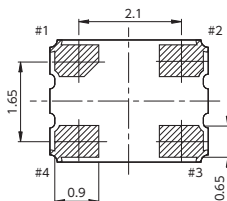
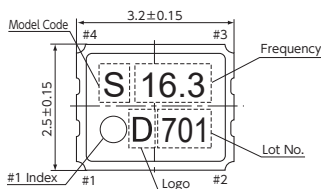
Consult our sales representative for other specifications.

(2) t_{DJ} : Deterministic jitter t_{RJ} : Random jitter

(3) Moisture prevention packing is unnecessary. Moisture Sensitivity Level : Level 1 (IPC/JEDEC J-STD-033)

[mm]

Dimensions



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

Function	#1 Input	#3 Output condition
H	Oscillation out	Oscillation out
Open	Oscillation out	Oscillation out
L	High Z	High Z

Recommended Land Pattern

