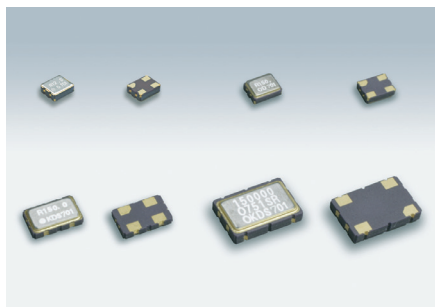


SMD Crystal Oscillators (For Automotive)

DSO221SR/DSO321SR/DSO531SR/DSO751SR



Features

- 3-state function
- Capable of operating over a wide temperature range, from -40 to +125°C.
- AEC-Q100/AEC-Q200 Compliant

Applications

- Multimedia devices such as car navigation systems and car audio
- Automotive camera

[Type]

DSO221SR	2520 size
DSO321SR	3225 size
DSO531SR	5032 size
DSO751SR	7349 size



[Function Code]

DSO***SR

A A

A : 3.3V

M : 3.0V

B : 2.8V

C : 2.5V

D : 1.8V

A, Y : $\pm 100 \times 10^{-6}$

Z : $\pm 80 \times 10^{-6}$

B : $\pm 50 \times 10^{-6}$

Actual size DSO221SR DSO321SR DSO531SR DSO751SR

Standard Specification

When requesting the product, please select the model and function code of your request.

Item	Function Code		Output Frequency Range (MHz)	Legend	Spec.				Condition
	Supply Voltage	Frequency tolerance			min.	typ.	max.	Unit	
Supply Voltage	A	*	$0.2 \leq f_0 \leq 125$	V _{CC}	+3.0	+3.3	+3.6	V	
	M		$0.2 \leq f_0 \leq 125$		+2.7	+3.0	+3.3		
	B		$0.2 \leq f_0 \leq 100$		+2.6	+2.8	+3.0		
	C		$0.2 \leq f_0 \leq 100$		+2.25	+2.5	+2.75		
Frequency Tolerance (Includes frequency tolerance at room temperature.)	*	Y	$0.2 \leq f_0 \leq 100$	f _{tol}	-100	-	+100	$\times 10^{-6}$	-40 to +125°C
		Z	$0.2 \leq f_0 \leq 100$		-80	-	+80		-40 to +110°C
		A	$100 < f_0 \leq 125$		-100	-	+100		-40 to +85°C
		B	$0.2 \leq f_0 \leq 100$		-50	-	+50		
Current Consumption	A, M	*	$0.2 \leq f_0 < 54$	I _{CC}	-	-	+4.0	mA	No Load
			$54 \leq f_0 < 80$		-	-	+6.0		
			$80 \leq f_0 \leq 125$		-	-	+8.0		
	B	*	$0.2 \leq f_0 < 54$		-	-	+3.5		
			$54 \leq f_0 < 80$		-	-	+5.5		
			$80 \leq f_0 \leq 100$		-	-	+7.5		
	C	*	$0.2 \leq f_0 < 54$		-	-	+3.0		
			$54 \leq f_0 < 80$		-	-	+5.0		
			$80 \leq f_0 \leq 100$		-	-	+7.0		
	D	*	$0.2 \leq f_0 < 54$		-	-	+2.5		
			$54 \leq f_0 < 80$		-	-	+4.5		
					-	-			
Stand-by Current (#1 pin 'L' level)	*	*	*	L _{std}	-	-	+10	μ A	
Load Condition	*	*	*	L _{CMOS}	-	-	15	pF	
Symmetry	*	*	*	SYM	40	50	60	%	50% V _{CC} Level
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	*	*	$0.2 \leq f_0 \leq 54$	tr,tf	-	-	8	ns	10 to 90% V _{CC} Level
			$54 < f_0 < 100$		-	-	4		
			$100 \leq f_0 \leq 125$		-	-	3		
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}	-	-	150	ns	
Output Enable Time	*	*	*	t _{PZL}	-	-	5	ms	
Period Jitter (1)	*	*	*	t _{RMS}	-	2.2	-	ps	σ
Total Jitter (1)	*	*	*	tp-p	-	20	-	ps	Peak to peak
Phase Jitter	*	*	$40 \leq f_0 \leq 125$	tpj	-	-	1	ps	f ₀ offset: 12kHz to 20MHz
			$10 \leq f_0 < 40$						
Reliability	AEC-Q100/AEC-Q200								
Packing Unit (3)	DSO221SR, DSO321SR: 2000pcs./reel(180 ϕ), DSO531SR: 1000pcs./reel(180 ϕ), DSO751SR: 1000pcs./reel(254 ϕ)								

- (1) Measured WAVECREST DTS-2075
- (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)

Consult our sales representative for other specifications.

■ DSO221SR [mm] ■ DSO321SR [mm] ■ DSO531SR [mm] ■ DSO751SR [mm]

Dimensions	Dimensions	Dimensions	Dimensions

单击下面可查看定价，库存，交付和生命周期等信息

[>>KDS\(大真空\)](#)