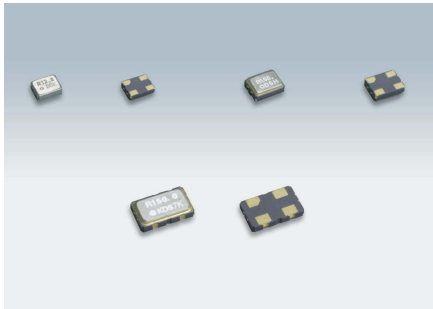


SMD Crystal Oscillators <For Automotive>

DSO221SR, DSO321SR, DSO531SR



Actual size DSO221SR □ DSO321SR □ DSO531SR □

■ Features

- 3-state function
- AEC-Q200 Compliant

■ Applications

- Automotive multimedia devices



■ Standard Specification

Item	Type	Legend	DSO221SR, DSO321SR, DSO531SR			Condition
Output Frequency Range		fo	1.8~50MHz			
Supply Voltage		Vdd	+3.3±0.3V			
Frequency Tolerance		f_tol	±50×10 ⁻⁶	±80×10 ⁻⁶	±100×10 ⁻⁶	Includes frequency tolerance at 25°C
Operating Temperature Range		T_use	-40~+85°C	-40~+110°C	-40~+125°C	
Current Consumption		Idd	3mA max.			at No Load
Stand - by Current		I_std	0.01mA max.			High impedance output /Oscillation stop
Output Disable Time		Tplz	150nsec. max.			
Output Enable Time		Tpzi	5msec. max.			
Symmetry		SYM	40~60%			50%V _{dd} Level
Rise and Fall Time		tr, tf	10nsec. max.			10~90%V _{dd} Level
"0" Level		Vol	V _{dd} ×0.1 max.			
"1" Level		Voh	V _{dd} ×0.9 min.			
Output Load Condition(C-MOS)		L_cmos	15pF max.			
Input Voltage Level		Vil	V _{dd} ×0.2 max.			
Input Current		Vih	V _{dd} ×0.8 min.			
Reliability			AEC-Q200-REV. C			
Packing Unit			DSO221SR, 321SR : 2000pcs./reel (φ180) , DSO531SR : 1000pcs./reel (φ180)			

Consult our sales representative for other specifications.

■ Dimensions[mm]

