

# SMD Voltage Controlled Crystal Oscillators

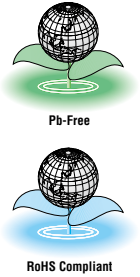
## DSV531S/DSV532S SERIES



Actual size

### ■ Features

- 5032 size, 1.2mm high. Miniature SMD-VCXO (0.022cc)
- The product is an analog VCXO which ensures good variable frequency and a linear changing frequency.



### ■ Applications

- DVD, Digital TV, STB, ADSL, BB modem, backbone transmission equipment

### ■ Standard Specification

Item	Type	Legend	DSV531SV/DSV532SV	DSV531SB/DSV532SB
Output Frequency Range		fo	1.25~80MHz	5~50MHz
Supply Voltage		Vcc	+3.3±0.3V	+5.0±0.5V
Frequency Control Voltage		Vcont	+1.65±1.65V	+2.5±2.0V
Storage Temperature Range		T_stg	-40~+85°C	
Operating Temperature Range		T_use	-10~+70°C	
Frequency Tolerance (Includes frequency tolerance at room temperature.)		f_tol	±50×10 <sup>-6</sup> max.	
Frequency Adjustment Range		f_cont	±100×10 <sup>-6</sup> min. [Positive Slope]	
Current Consumption		Icc	10mA max.(fo≤60MHz) 15mA max.(fo>60MHz) [No Load]	15mA max. [No Load]
Load Condition		L_cmos	15pF max.	
Symmetry		SYM	40~60% [50% Vcc Level]	
0 Level Output Voltage		VoL	Vcc×0.1 max.	
1 Level Output Voltage		VoH	Vcc×0.9 min.	
Rise and Fall Time		tr, tf	10ns max.(fo≤50MHz) 6ns max.(fo>50MHz) [10~90% Vcc Level]	10ns max. [10~90% Vcc Level]
Period Jitter (1)		tRMS	2.2ps typ. [σ]	
		tp-p	20ps typ.[Peak to peak]	
Total Jitter (1)		tTL	31ps typ. [tDJ+n*tRJ n=14.1(BER=1*10 <sup>-12</sup> ) (2)]	
Phase Jitter		tpj	1ps max. [10≤fo<40MHz, fo offset: 1.2kHz~5MHz fo≥40MHz, fo offset: 1.2kHz~20MHz]	
Packing Unit		—	1000pcs./reel(φ180)	

(1) Measured WAVECREST DTS-2075

(2) tDJ:Deterministic jitter tRJ:Random jitter

Consult our sales representative for other specifications.

### ■ Dimensions[mm]

