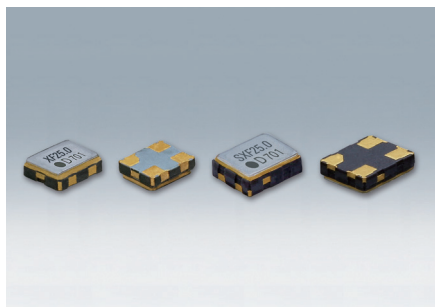


SMD Crystal Oscillators

DSO211SXF/DSO221SXF



Actual size DSO211SXF DSO221SXF

Features

- Supply Voltage : 1.8V/2.5V/2.8V/3.3V
- Available frequency range: 1 to 125MHz
- Low profile : 0.7mm (DSO211SXF), 0.8mm (DSO221SXF)
- CMOS Level Output
- Capable of operating over a wide temperature range, from -40 to 125°C.
- 3-state function

Applications

- Audio equipment, communication equipment, visual equipment, FA equipment, PC, gaming equipment and WiLAN

[Function Code]

DSO***SXF

A : 3.3V

B : 2.8V

C : 2.5V

D : 1.8V

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

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

C : $\pm 30 \times 10^{-6}$

D : $\pm 25 \times 10^{-6}$

E : $\pm 20 \times 10^{-6}$



[Type]

DSO211SXF	2016 size
DSO221SXF	2520 size

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

Standard Specification

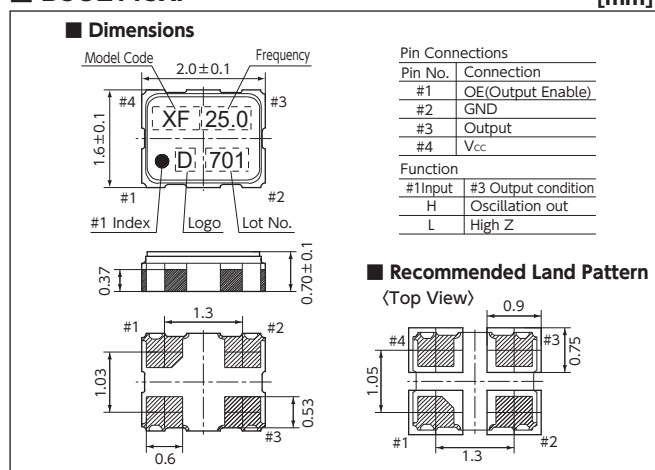
Item	Function Code		Output Frequency Range (MHz)	Legend	Spec.				Condition	
	Supply Voltage	Frequency tolerance			min.	typ.	max.	Unit		
Supply Voltage	A	*	1 ≤f ₀ ≤ 125	V _{cc}	+3.0	+3.3	+3.6	V		
	B				+2.6	+2.8	+3.0			
	C		1 ≤f ₀ ≤ 100		+2.25	+2.5	+2.75			
	D				+1.6	+1.8	+2.0			
Frequency Tolerance (includes frequency tolerance at room temperature)	*	Z	*	f _{tol}	—	—	+80	×10 ⁻⁶	-40 to +125℃	-10 to +70℃ (Standard Operating Temperature Range)
		B			—	—	+50		-40 to +85℃	
		C			—	—	+50		-20 to +70℃	
		D			—	—	+30			
		E			—	—	+25			
Current Consumption	A	*	100≤f ₀ ≤ 125	I _{cc}	—	—	10.0	mA	No Load	
			40≤f ₀ <100		—	—	4.2			
			1≤f ₀ <40		—	—	2.4			
	B		100≤f ₀ ≤ 125		—	—	9.0			
			40≤f ₀ <100		—	—	3.7			
			1≤f ₀ <40		—	—	2.2			
	C		100≤f ₀ ≤ 125		—	—	8.0			
			40≤f ₀ <100		—	—	3.4			
			1≤f ₀ <40		—	—	2.0			
	D		40≤f ₀ ≤ 100		—	—	2.7			
			1≤f ₀ <40		—	—	1.7			
			Stand-by Current (#1 pin "L"Level)		*	*	*			
Load Condition	*	*	*	L _{CMOS}	—	—	15	pF		
Symmetry	*	*	*	SYM	45	50	55	%	50% V _{cc} Level	
0 Level Input Voltage	*	*	*	V _{OL}	—	—	V _{cc} ×0.1	V		
1 Level Input Voltage	*	*	*	V _{OH}	V _{cc} ×0.9	—	—	V		
Rise and Fall Time	A, B, C	*	*	tr, tf	—	—	3	ns	10 to 90% V _{cc} Level	
D	—				—	5				
OE Pin 0 Level Input Voltage	*	*	*	V _{IL}	—	—	V _{cc} ×0.3	V		
OE Pin 1 Level Input Voltage	*	*	*	V _{IH}	V _{cc} ×0.7	—	—			
Output Disable Time	*	*	*	tPLZ	—	—	200	ns		
Output Enable Time	*	*	*	tPZL	—	—	2	ms		
Packing Unit (1)	3000pcs./reel (φ 180)									

(1) Moisture prevention packing is unnecessary.
Moisture Sensitivity Level : Level1 (IPC/JEDEC J-STD-033)

Consult our sales representative for other specifications.

DSO211SXF

[mm]



DSO221SXF

[mm]

