

SMD Crystal Oscillators

DSO211AB/DSO221SBM, DSO321SBM/SBN/SVN, DSO531SBM/SBN/SVN, DSO751SBM/SBN/SVN

Features

- Low current consumption (5V type DSO211AB, DSO***SBM/SBN) (3.3V type DSO***SVN)



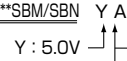
Ph-Free

RoHS Compliant

Function
 ***SBM/General purpose +5.0V HCMOS oscillator
 ***SVN/General purpose +3.3V HCMOS oscillator
 Characteristic for single
 applications

[Function Code]

DSO211AB, DSO***SBM/SBN



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

al, FA equipment applications

DSO***SVN



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

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

Model Code	Output Frequency Range (MHz)	Spec.			Unit	Condition
		min.	Typ.	max.		
+5.5	$0.7 \leq f_o \leq 90$	+4.5	+5.0	+5.5	V	DSO***SBM/SBN
-	-	+3.0	+3.3	+3.6	V	DSO***SVN
+100	$0.7 \leq f_o \leq 90$	-100	-	+100	X10 ⁻⁶	-10~+70°C
+50	$0.7 \leq f_o \leq 90$	-50	-	+50		-40~+85°C (Standard Operating Temp)
+30	$0.7 \leq f_o \leq 54$	-30	-	+30	mA	-20~+70°C
8.0	$0.7 \leq f_o < 32$	-	-	4.0		DSO***SBM/SBN
-	$32 \leq f_o < 54$	-	-	6.0	mA	DSO***SVN
-	$54 \leq f_o < 90$	-	-	8.0		
-	$0.7 \leq f_o < 32$	-	-	2.0	mA	DSO***SBM/SBN
-	$32 \leq f_o < 54$	-	-	3.0		
-	$54 \leq f_o < 90$	-	-	6.0	mA	DSO***SVN
50	*	-	-	50		μ A
30	*	-	-	30	pF	DSO***SBM/SBN
-	*	-	-	15	pF	DSO***SVN
55	$f_o < 26$	45	50	55	%	50% Vcc
60	$f_o \geq 26$	40	50	60	%	50% Vcc
Vcc X0.1	*	-	-	Vcc X0.1	V	
-	*	Vcc X0.9	-	-	V	
10	$0.7 \leq f_o \leq 54$	-	-	7 (6)	ns	
-	$54 < f_o \leq 90$	-	-	5 (4)		
-	$0.7 \leq f_o \leq 54$	-	-	8 (7)	ns	
-	$54 < f_o \leq 90$	-	-	5 (4)		
Vcc X0.2	*	-	-	Vcc X0.2	V	
-	*	Vcc X0.8	-	-	V	
150	*	-	-	150	ns	
-	5	-	-	1	ms	
2.5	-	-	2.5	-	ps	
20	-	-	20	-	ps	
35	-	-	35	-	ps	
-	1	$40 \leq f_o \leq 90$	-	1	ps	
-	-	$10 \leq f_o < 40$	-	-	ps	

DSO211AB, DSO221SBM, DSO321SBM/SBN/SVN: 1000pcs/reel(ϕ 180), DSO531SBM/SBN/SVN: 10000pcs/reel(ϕ 180)

Consult our sales representative

Dimensions [mm]

DSO211AB Model Code : B

Model Code: #4 #3
 Frequency
 B: 20.0
 D: 2.08
 Lot No.
 #1 Index #1 Logo #2

0.72 0.08
 1.25
 0.95
 0.55 0.45

Pin Connections
 Pin No. Connection
 #1 OE (Output Enable)
 #2 GND
 #3 Output
 #4 Vcc

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

DSO221SBM Model Code : B

Model Code: #4 #3
 Frequency
 B: 27.0
 D: 2.70
 Lot No.
 #1 Index #1 Logo #2

0.815 0.08
 1.58
 1.23
 0.68 0.63

Pin Connections
 Pin No. Connection
 #1 OE (Output Enable)
 #2 GND
 #3 Output
 #4 Vcc

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

DSO321SBM/SBN/SVN

Model Code: #4 #3
 Frequency
 B: 54.0
 D: 2.70
 Lot No.
 #1 Index #1 Logo #2

2.5 0.15
 3.2 0.15
 2.5 0.15
 1.15
 2
 0.5

Pin Connections
 Pin No. Connection
 #1 OE (Output Enable)
 #2 GND
 #3 Output
 #4 Vcc

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

DSO531SBM/SBN/SVN

Model Code: #4 #3
 Frequency
 B: 27.000
 D: 2.70
 Lot No.
 #1 Index #1 Logo #2

5.0 0.2
 3.2 0.2
 1.15
 2.54
 2.10
 1.2

Pin Connections
 Pin No. Connection
 #1 OE (Output Enable)
 #2 GND
 #3 Output
 #4 Vcc

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

DSO751SBM/SBN/SVN

Model Code: #4 #3
 Frequency
 B: 75.0
 D: 2.70
 Lot No.
 #1 Index #1 Logo #2

4.9 0.2
 1.8 0.2
 3.65
 1.4
 4.9
 1.8

Pin Connections
 Pin No. Connection
 #1 OE (Output Enable)
 #2 GND
 #3 Output
 #4 Vcc

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