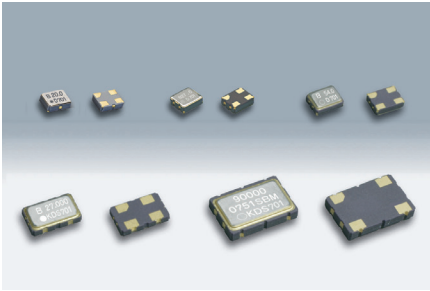


表面贴装型晶体振荡器

DSO211AB/DSO221SBM/DSO321SBM/DSO531SBM/DSO751SBM



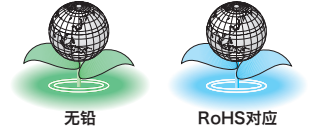
实际尺寸 DSO211AB □ DSO221SBM □ DSO321SBM □
DSO531SBM □ DSO751SBM □

■ 优点

- 低消耗电流
- 带三态功能
- 5V通用类型振荡器

■ 用途

- PC、视频设备、FA设备等



[特性代码]
DSO211AB, DSO***SBM Y A
Y: 5.0V
A: $\pm 100 \times 10^{-6}$
B: $\pm 50 \times 10^{-6}$
C: $\pm 30 \times 10^{-6}$

订购时除了型号以外, 请另外指定特性代码(例YA)。

[型号]	尺寸
DSO211AB	2016尺寸
DSO221SBM	2520尺寸
DSO321SBM	3225尺寸
DSO531SBM	5032尺寸
DSO751SBM	7349尺寸

■ 一般规格

项目	符号	特性代码		DSO211AB/DSO221SBM			DSO321, 531, 751 SBM			规格值		条件		
		电源电压	频率公差	输出频率范围 (MHz)	min.	typ.	max.	输出频率范围 (MHz)	min.	Typ.	max.		单位	
电源电压	V _{cc}	*	*	3.25 ≤ f _o ≤ 52	+4.5	+5.0	+5.5	0.7 ≤ f _o ≤ 90	+4.5	+5.0	+5.5	V		
频率公差 (含常温偏差)	f _{tol}	*	A	3.25 ≤ f _o ≤ 52	-100	-	+100	0.7 ≤ f _o ≤ 90	-100	-	+100	X10 ⁻⁶	-40 ~ +85°C	-10 ~ +70°C
			B	3.25 ≤ f _o ≤ 52	-50	-	+50	0.7 ≤ f _o ≤ 90	-50	-	+50		-20 ~ +70°C (标准运行温度范围)	
			C	3.25 ≤ f _o ≤ 52	-30	-	+30	0.7 ≤ f _o ≤ 54	-30	-	+30			
消耗电流	I _{cc}	*	*	3.25 ≤ f _o ≤ 52	-	-	8.0	0.7 ≤ f _o < 32	-	-	4.0	mA	No Load	
								32 ≤ f _o < 54	-	-	6.0			
								54 ≤ f _o < 90	-	-	8.0			
待机时电流 (#1引脚“L”)	I _{std}	*	*	*	-	-	50	*	-	-	50	μA		
输出负载	L _{cmos}	*	*	*	-	-	30	*	-	-	30	pF		
波形对称	SYM	*	*	f _o < 26	45	50	55	f _o < 26	45	50	55	%	50% V _{cc} Level	
				f _o ≥ 26	40	50	60	f _o ≥ 26	40	50	60			
0电平电压	V _{OL}	*	*	*	-	-	V _{cc} × 0.1	*	-	-	V _{cc} × 0.1	V		
1电平电压	V _{OH}	*	*	*	V _{cc} × 0.9	-	-	*	V _{cc} × 0.9	-	-	V		
上升时间	tr	*	*	3.25 ≤ f _o ≤ 52	-	-	10	0.7 ≤ f _o ≤ 54	-	-	7 (6)	ns	L _{cmos} : 30pF 10~90% V _{cc} Level (20~80% V _{cc} Level)	
下降时间	tf							54 < f _o ≤ 90	-	-	5 (4)			
OE端子0电平输入电压	V _{IL}	*	*	*	-	-	V _{cc} × 0.2	*	-	-	V _{cc} × 0.2	V		
OE端子1电平输入电压	V _{IH}	*	*	*	V _{cc} × 0.8	-	-	*	V _{cc} × 0.8	-	-	V		
输出禁用时间	tPLZ	*	*	*	-	-	150	*	-	-	150	ns		
输出使能时间	tPZL	*	*	*	-	-	5	*	-	-	1	ms		
周期抖动 (1)	tRMS	*	*	*	-	2.5	-	*	-	2.5	-	ps	σ Peak to peak	
	tp-p													
总抖动 (1)	tTL	*	*	*	-	35	-	*	-	35	-	ps	t _{DJ} / n × t _{RJ} n=14.1 (BER=1×10 ⁻¹²) (2)	
	tpj													
相位抖动	tpj	*	*	40 ≤ f _o ≤ 52	-	-	1	40 ≤ f _o ≤ 90	-	-	1	ps	fo offset: 12kHz ~ 20MHz fo offset: 12kHz ~ 5MHz	
														10 ≤ f _o < 40
包装单位 (3)	DSO211AB: 3000pcs./reel (φ180), DSO221SBM, DSO321SBM: 2000pcs./reel (φ180), DSO531SBM: 1000pcs./reel (φ180), DSO751SBM: 1000pcs./reel (φ254)													

- (1) 通过WAVECREST DTS-2075测量。
- (2) t_{DJ}: Deterministic jitter t_{RJ}: Random jitter
- (3) 无需防湿包装管理 Moisture Sensitivity Level: LEVEL1 (IPC/JEDEC J-STD-033)

有关其他规格或者特殊规格请咨询营业部门。

■ DSO211AB [mm] ■ DSO221SBM [mm] ■ DSO321SBM [mm] ■ DSO531SBM [mm] ■ DSO751SBM [mm]

■ 外形尺寸

Top View: 2.0±0.12, 1.6±0.12, 0.7±0.08, 1.25, 0.95, 0.55, 0.45

Pin Connections: #1 GND, #2 GND, #3 Output, #4 Vcc

Function: #1 Input, #3 Output control, H Oscillation out, Open L High Z

■ 外形尺寸

Top View: 2.5±0.15, 2.0±0.15, 0.8±0.08, 1.58, 1.23, 0.68, 0.53

Pin Connections: #1 GND, #2 GND, #3 Output, #4 Vcc

Function: #1 Input, #3 Output control, H Oscillation out, Open L High Z

■ 外形尺寸

Top View: 3.2±0.15, 2.5±0.15, 1.1~1.1, 2.1, 1.65, 0.9, 0.65

Pin Connections: #1 GND, #2 GND, #3 Output, #4 Vcc

Function: #1 Input, #3 Output control, H Oscillation out, Open L High Z

■ 外形尺寸

Top View: 5.0±0.2, 3.3±0.2, 1.1~1.1, 2.54, 2.10, 1.2, 0.9

Pin Connections: #1 GND, #2 GND, #3 Output, #4 Vcc

Function: #1 Input, #3 Output control, H Oscillation out, Open L High Z

■ 外形尺寸

Top View: 7.3±0.2, 4.9±0.2, 1.5±0.2, 5.08, 3.65, 1.4, 1.0, 1.8

Pin Connections: #1 GND, #2 GND, #3 Output, #4 Vcc

Function: #1 Input, #3 Output control, H Oscillation out, Open L High Z