

ECS-2520SMV

SMD Multi Volt™ Crystal Oscillator

Request a Sample



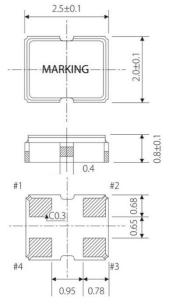
The ECS-2520SMV is a miniature SMD HCMOS Oscillator with Multi Tight Stability Volt[™] capability of 1.62 ~ 3.63 V with a tight stability of ±5 or ±10 ppm. The 2.5 x 2.0 x 1.0 mm ceramic package is ideal for Low Power/Portable, Industrial and IOT, applications.

ECS-2520SMV SMD XO



- 2.5 x 2.0 mm Footprint
- Extended Temp Range
- RoHS Compliant
- Wide Supply Voltage
- Tight Stability
- Compatible with 1.8V, 2.5V or 3.3V Power Supply

DIMENSIONS (mm)



OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	EC	ECS-2520SMV		
		MIN	TYP	MAX	
Frequency Range		8.000		60.000	MHz
* Frequency Stability	-40 ~ +105°C (FP Opt)			±10	ppm
Supply Voltage		1.62		3.63	V
Output Load	CMOS			15	рF
Output voltage Level	Vol: 0.2 Vdd max./Voн:0.8Vdd min.V DC				
Rise & Fall time	20%Vdd - 80%Vdd			3	nS
Start Up Time				10	mS
Phase Jitter	12 KHz to 20 MHz			1	pS
Duty Cycle	@ ½ Vdd		45/55		%
Input Current (No Load)			6	10	mA
Standby Current				10	μΑ
Operating Temp*	P Option	-40		+105	°C
Storage Temp		-55		+125	°C

PAD CONNECTIONS					
1 Tri-state					
2	Gnd				
3	Output				
4	Vdd				

Tri State Function					
Pin 1	Output				
0.7 * Vdd Min Or NC	Active				
0.3 * Vdd Max.	High Impedance				

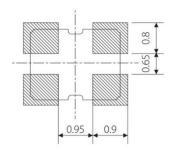


Figure 2) Suggested Land Pattern

Figure 1) Top, Side, and Bottom views

PART NUMBERING	GUIDE: Example b	C3-25203IVIV-250-	FP-IK			
ECS -	SERIES	FREQUENCY - ABBREVIATION	* STABILITY	TEMP RANGE -	PACKAGING	
	2520SMV 2.5 x 2.0 mm Multi Volt Oscillator Tight Stability	250 = 25.000 MHz See Developed Frequencies Pg.2	F= ±10 ppm G = ±5 ppm	N = -40 ~ +85°C P = -40 ~ +105°C	-TR = Tape & Reel 1K/Reel	

^{*} Frequency Stability includes initial tolerance, temperature, supply voltage & load change reflow frequency shift, and aging.





DEVELOPED FREQUENCIES

FREQUENCY MHz	CODE
8.000	80
10.000	100
11.0592	110.5
12.000	120
16.000	160
19.200	192
20.000	200
24.000	240
24.576	245.7
25.000	250
26.000	260
27.000	270
30.000	300
32.000	320
33.000	330
33.333	333.3
48.000	480
50.000	500

SOLDER PROFILE					
Peak solder Temp +260°C ±5°C 10 ±5 Sec Max.					
2 Cycles Max.					
MSL 1, Lead Finish Au					

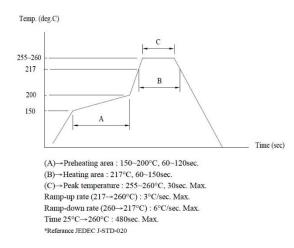
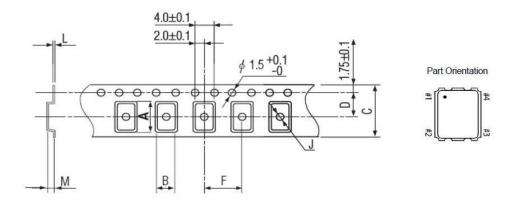


Figure 1) Suggested Reflow Profile

POCKET TAPE DIMENSIONS (mm)



Α	В	С	D	F	J	L	М	Reel Dia.	Qty/Reel
2.8	2.3	8.0	3.5	4.0	1.0	0.25	1.1	180	1000pcs

Mouser Electronics

Authorized Distributor

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ECS: