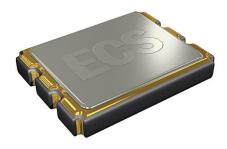


# ECS-2520SMV-330-FN-TR Datasheet

www.digi-electronics.com



DiGi Electronics Part Number	ECS-2520SMV-330-FN-TR-DG
Manufacturer	ECS Inc.
Manufacturer Product Number	ECS-2520SMV-330-FN-TR
Description	XTAL OSC XO 33MHZ HCMOS SMD
Detailed Description	33 MHz XO (Standard) HCMOS Oscillator 1.62V ~ 3.6 3V Enable/Disable 4-SMD, No Lead

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# Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
ECS-2520SMV-330-FN-TR	ECS Inc.
Series:	Product Status:
ECS-2520SMV MultiVolt™	Active
Base Resonator:	Туре:
Crystal	XO (Standard)
Frequency:	Function:
33 MHz	Enable/Disable
Output:	Voltage - Supply:
нсмоѕ	1.62V ~ 3.63V
Frequency Stability:	Absolute Pull Range (APR):
±10ppm	-
Operating Temperature:	Spread Spectrum Bandwidth:
-40°C ~ 85°C	
Current - Supply (Max):	Ratings:
10mA	-
Mounting Type:	Package / Case:
Surface Mount	4-SMD, No Lead
Size / Dimension:	Height - Seated (Max):
0.098" L x 0.079" W (2.50mm x 2.00mm)	0.035" (0.90mm)
Current - Supply (Disable) (Max):	
10μΑ	

# **Environmental & Export classification**

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8542.39.0001	



# **ECS-2520SMV**

**OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS** 

SMD Multi Volt<sup>™</sup> Crystal Oscillator

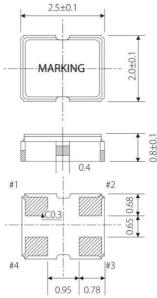
The ECS-2520SMV is a miniature SMD HCMOS Oscillator with Multi Volt<sup>™</sup> capability of 1.62 ~ 3.63 V with a tight stability of ±5 or ±10 ppm. The 2.5 x 2.0 x 1.0 mm ceramic package is ideal for Low Power/Portable, Industrial and IOT, applications,

#### ECS-2520SMV SMD XO



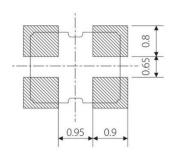
- 2.5 x 2.0 mm Footprint
- Extended Temp Range
- RoHS Compliant
- Wide Supply Voltage
- Tight Stability
- Compatible with 1.8V, 2.5V or 3.3V Power Supply

#### **DIMENSIONS (mm)**



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

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



INTERNATIONAL

#### Figure 2) Suggested Land Pattern

Figure 1) Top, Side, and Bottom views

#### PART NUMBERING GUIDE: Example ECS-2520SMV-250-FP-TR

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.

Rev.2024

PARAMETERS	CONDITIONS	EC	CS-2520S	MV	UNITS	
		MIN	ТҮР	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	pF	
Output voltage Level	Vol: 0.2 Vdd max./Voн:0.8Vdd min.V DC					
Rise & Fall time	20%Vdd – $80%V$ dd			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	

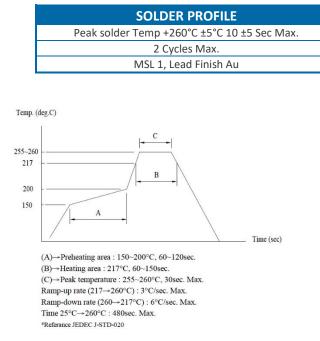
**Request a Sample** 



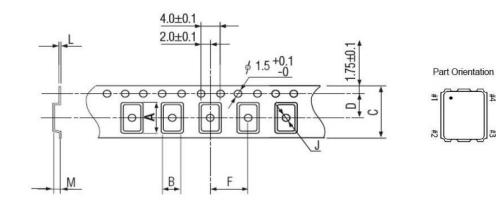


#### **DEVELOPED FREQUENCIES**

FREQUENCY MHz	CODE
8.000	080
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
38.400	384
40.000	400
48.000	480
50.000	500







А	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



### **OUR CERTIFICATE**

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we striciy control the quality of products and services. Welcome your RFQ to Email: Info@DiGi-Electronics.com

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