

CRYSTAL OSCILLATORS



SMH-321 SERIES

CERAMIC PACKAGE

Applications

- DVR
- Camera
- Medical
- Industry Control

- Wireless
- Communication
- Telecom
- IoT

Features

- Seam Seal
- Excellent Solderability
- Tri-State
- RoHS Compliant
- Low Power Consumption

- Actual Size:

Specification

MODEL

FREQUENCY RANGE	MHz	1.000 ~ 54.000		
FREQUENCY STABILITY*	ppm	± 10(Max.)		
OPERATING TEMPERATURE	°C	-10 ~ +70, -40 ~ +85		
STORAGE TEMPERATURE	°C	-55 ~ +125		
POWER SUPPLY VOLTAGE	VDC	+1.8±5%	+2.5±5%	+3.3±5%
OUTPUT LEVEL		CMOS		
OUTPUT SYMMETRY**	%	40 ~ 60 (at 50% VDC)		
INPUT CURRENT				
1 ~ 9.99MHz	mA (Max.)	5	6	7
10 ~ 19.99MHz		6	8	7
20 ~ 31.99MHz		6	8	12
32 ~ 54.00MHz		10	15	15
RISE / FALL TIME				
1 ~ 9.99MHz	ns (Max.)	7	5	5
10 ~ 19.99MHz		7	5	5
20 ~ 31.99MHz		6	5	5
32 ~ 54.00MHz		6	5	5
OUTPUT LOAD		15 pF		
AGING	ppm/Year	± 2		

*Inclusive of 25°C±3°C & Operating Temperature Range.

**Symmetry of 45 ~ 55% is available.

Pin Connection

No.	Connection
#1	E/D
#2	GND
#3	Output
#4	VDC

Enable / Disable Function

E/D (#1)	OUTPUT (#3)
HIGH (Open)	Operating
LOW	High impedance

Dimension(mm)

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