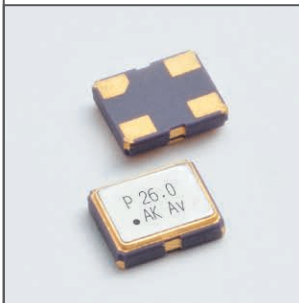


# CRYSTAL OSCILLATORS

## PROGRAMMABLE CLOCK CRYSTAL OSCILLATOR



### SMP-321 SERIES

CERAMIC PACKAGE

#### Applications

#### Features

• Actual Size:

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

#### Specification

##### MODEL

FREQUENCY RANGE	MHz	1 ~ 110	1 ~ 166	1 ~ 200
FREQUENCY STABILITY*	ppm		± 30 ~ ± 100	
OPERATING TEMPERATURE	°C		- 10 ~ + 70 , - 40 ~ + 85	
STORAGE TEMPERATURE	°C		- 55 ~ + 125	
POWER SUPPLY VOLTAGE	VDC	+1.8±5%	+2.5±5%	+3.3±10%
OUTPUT LEVEL			CMOS	
OUTPUT SYMMETRY	%		45 ~ 55 (at 50% VDC)	
INPUT CURRENT				
1.0 ~ 9.99MHz	mA (Max.)		8	
10 ~ 19.99MHz			10	
20 ~ 31.99MHz			12	
32 ~ 49.99MHz			15	
50 ~ 79.99MHz			20	
80 ~ 99.99MHz			25	
100 ~ 200MHz			30	
RISE / FALL TIME				
1.0 ~ 31.99MHz	ns (Max.)		6	
32 ~ 200MHz			5	
OUTPUT LOAD			15 pF	
AGING	ppm/Year		± 3	

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

#### 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)

##### SMP-321

