

APO Series (Fixed Models)

SMD Low Voltage Positive ECL Clock Oscillators

Kosho Inc.
A Morion Company

Parameters	Conditions	Specifications	
Type		APO (LVPECL oscillator, 7050 size, 6 pads)	
Power Supply Voltage	Vdc	+2.5V \pm 5%	+3.3V \pm 5%
Frequency Range		25.000 MHz to 400.000 MHz	
Frequency Stability	All Conditions	\pm 20ppm to \pm 100ppm	
Operating Temperature		-20 ⁰ to +70 ⁰ C -40 ⁰ to +85 ⁰ C	
Output Load		Terminated into 50 Ω to (VT - 2.0V)	
Output Symmetry	@50% Vcc Level	45 / 55 % / 2.5V / Ta= 25 ⁰ C	45 / 55 % / 3.3V / Ta= 25 ⁰ C
Output Voltage	VOL VOH	Vcc - 1.405V max. (Logic "0") Vcc - 1.025V max. (Logic "1")	Vcc - 1.620V max. (Logic "0") Vcc - 1.025V max. (Logic "1")
Current Consumption (No Load)	#1 Open (CL = 15 pF)	70 mA max. / +2.5V / Ta+ 25 ⁰ C OE = Vcc	70 mA max. / +3.3V / Ta+ 25 ⁰ C OE = Vcc
Stand-by Current	"0" Level at #1	30 uA max.	30 uA max.
Rise Time / Fall Time	Vth 20% to 80%	1.0nS max.	1.0nS max.
RMS Jitter	12kHz to 20MHz	1.0pS max.	1.0pS max.

Ordering Guide

APO-33 1 C M 6 - 50.000 MHz

P.S. Voltage

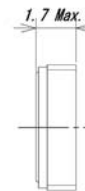
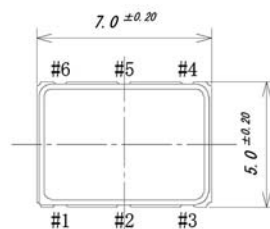
+2.5V | +3.3V

Frequency

25~400 MHz

Sign	Stability
E	\pm 20ppm
D	\pm 25ppm
C	\pm 30ppm
B	\pm 50ppm
A	\pm 100ppm
Z	Other

■ Dimensions



Pad Connection

Pin	Terminal
#1	INHB
#2	N.C.
#3	GND
#4	Output
#5	N Output
#6	VDD

Recommended Soldering Pattern

Sign	Temp' Range
S	0~ +70 ⁰ C
P	-10~ +70 ⁰ C
M	-20~ +70 ⁰ C
F	-40~ +85 ⁰ C
X	Other

