

ALS Series (Fixed Models)

SMD Low Voltage Differential Signal Clock Oscillators

Kosho Inc.
A Morion Company

Parameters	Conditions	Specifications	
Type		ALS (LVDS oscillator, 5032 size, 6 pads)	
Power Supply Voltage	Vdc	+2.5V ±5%	+3.3V ±5%
Frequency Range		25.000 MHz to 125.000 MHz	
Frequency Stability	All Conditions	±20ppm to ±100ppm	
Operating Temperature		-20° to +70° C -40° to +85° C	
Output Load		Terminated into 100 Ω	
Output Symmetry	@50% Vcc Level	45 / 55 % / 2.5V / Ta= 25° C	45 / 55 % / 3.3V / Ta= 25° C
Output Voltage	VOL VOH	Vcc - 0.9V max. Vcc - 1.6V max.	Vcc - 0.9V max. Vcc - 1.6V max.
Differential Output	VOD	247mV min. / 454V max.	
Offset Output	VOS	1.125V min. / 1.375V max.	
Current Consumption (No Load)		70 mA max. / +2.5V / Ta+ 25° C OE = Vcc	70 mA max. / +3.3V / Ta+ 25° 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

ALS-33 1 C M 6 - 50.000 MHz

P.S. Voltage

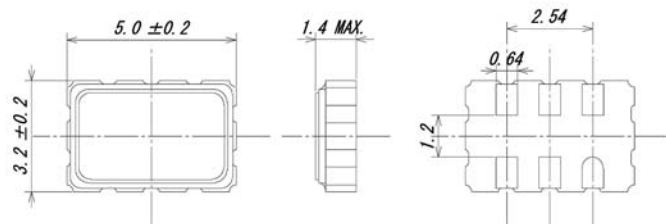
+2.5V | +3.3V

Frequency

25~125 MHz

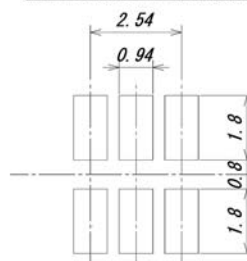
Sign	Stability
E	±20ppm
D	±25ppm
C	±30ppm
B	±50ppm
A	±100ppm
Z	Other

■ Dimensions



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

Recommended Soldering Pattern



Pad Connection

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