

# Crystal Clock

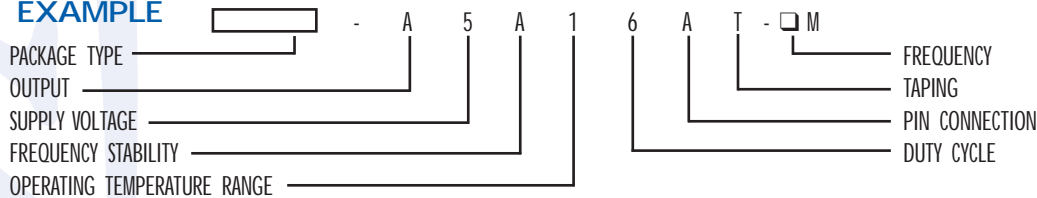
Surface Mount

ADOSM Series



<b>Package Type</b>	ADOSM-351 ADOSM-352 ADOSM-361	pg25 pg25 pg26	ADOSM-576 ADOSM-1014C	pg27 pg28		
<b>Output</b>	CMOS	A	TTL	B	CMOS Compatible	C
<b>Supply Voltage</b>	3.3V	3	5.0V	5		
<b>Frequency Stability Over Temperature</b>	±100 ppm ±50 ppm	A B	±30 ppm ±25 ppm	C D	±10 ppm	E
<b>Operating Temperature Range</b>	0°C to +70°C -10°C to +60°C	1 2	-20°C to +70°C -40°C to +85°C	3 4	-10°C to +70°C 0°C to +50°C	5 6
<b>Duty Cycle</b>	45/55%	5	40/60%	6		
<b>PIN Connection</b>	Tri-State, E//D	A	No Connection		BLANK	
<b>Options</b>	None (Standard)	Blank	Tape & Reel	T		
<b>Frequency</b>	MHz	M	KHz	K		

## EXAMPLE



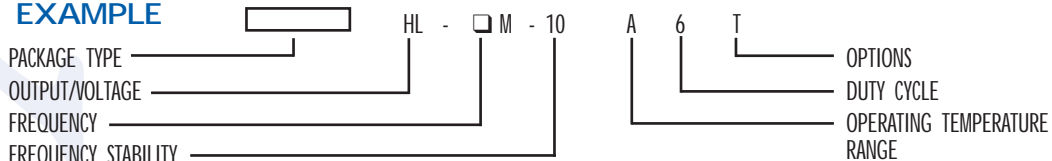
# Crystal Clock

Thru Hole

ADOF Series / ADOH Series

<b>Package Type</b>	ADOF (Full Size)	pg29	ADOH (Half size)	pg29					
<b>Output / Voltage</b>	HCNOS/TTL 5V TTL 5V	Blank T	HCNOS 5V HCNOS/TTL 3.3V	H L	TTL 3.3V HCNOS 3.3V	TL HL			
<b>Frequency</b>	MHz	M	KHz	K					
<b>Frequency Stability Over Temperature</b>	±10 ppm ±20 ppm	1 2	±25 ppm ±50 ppm	3 5	±100 ppm	10			
<b>Operating Temperature Range</b>	0°C to +70°C -10°C to +70°C	A B	-20°C to +70°C -30°C to +70°C	C D	-40°C to +85°C -55°C to +125°C	E F			
<b>Duty Cycle</b>	45/55%	5	40/60%	6	47.5-52.5%	7			
<b>Options</b>	Tri-State	T	Tri-State	GULL WING	TG	GULL WING	G		

## EXAMPLE

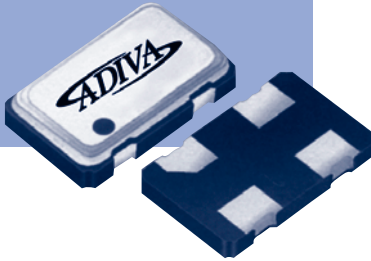


# Crystal Clock

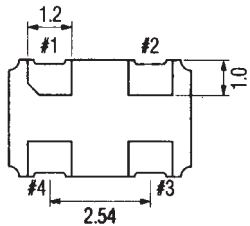
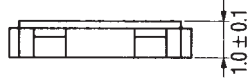
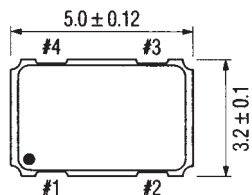
Surface Mount

ADOSM-350 Series (+3.0V Version &amp; +5.0V Version) (351, 352)

## ADOSM-351 & ADOSM-352



ADOSM-351 &amp; ADOSM-352 (unit: mm)



PIN	CONNECTION
1	STANDBY
2	GND
3	OUTPUT
4	Vcc

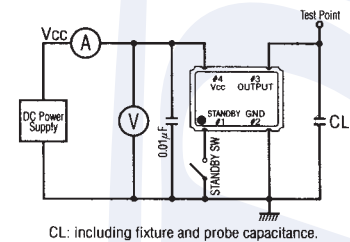
### STANDARD SPECIFICATIONS

Package Type	ADOSM-351	ADOSM-352
Frequency Range	2.500 MHz to 66.666 MHz	2.500 MHz to 35.000 MHz
Frequency Stability	±100 ppm ±50 ppm ±30 ppm	±100 ppm ±50 ppm ±30 ppm
Operating Conditions	over all conditions	over all conditions
Operating temperature	-10°C to +70°C (±100 ppm & ±50 ppm) -10°C to +60°C (±30 ppm)	-10°C to +70°C (±100 ppm & ±50 ppm) -10°C to +60°C (±30 ppm)
Storage temperature	-55°C to +125°C	-55°C to +125°C
Input voltage (Vcc)	+3.0V DC ±0.3V	+5.0V DC ±0.5V
Standby control voltage	Pin#1 = Open Pin#1 = +2.1V min. Pin#1 = +0.9V max.	→ #3=Output → #3=Output → #3=No oscillation
Input Current	10 mA max. (2.500 MHz to 35.000 MHz) 15 mA max. (35.000 MHz to 55.000 MHz) 20 mA max. (55.000 MHz to 66.666 MHz)	15mA max
Output (-10°C to +70°C)		
Symmetry	50% ±10% at 1/2Vcc level	50% ±10% at 1/2Vcc level
Rise and fall times	10 ns max.	10 ns max.
"0" Level	Vcc X 0.1V max.	Vcc X 0.1V max.
"1" Level	Vcc X 0.9V min.	Vcc X 0.9V min.
Load	15 pF max.	15 pF max.
Standby Current	10 µA max.	10 µA max.
Start-up	10 ms max.	10 ms max.
Reflow Soldering Conditions	+240°C ±5°C for 10 seconds +150°C ±10°C for 1 to 2 minutes (preheating)	

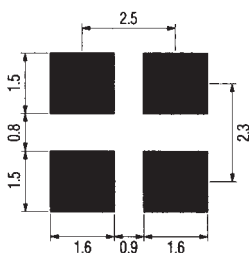
### PACKAGE DATA

Item / Package	ADOSM-351 & ADOSM-352
LID	Metal
BASE	Ceramic
SEALING	Seam-weld
TERMINAL PLATING	Gold

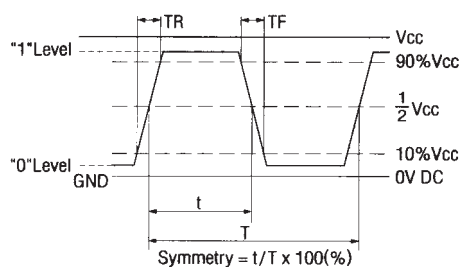
### TEST CIRCUIT



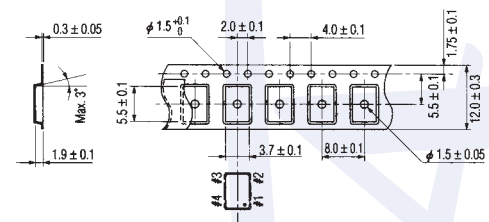
### SOLDERING PATTERN



### OUTPUT WAVEFORM



### TAPE SPECIFICATIONS



1000pcs. per reel (178mm dia.)

SEE PAGE 24 FOR PART NUMBERING GUIDE