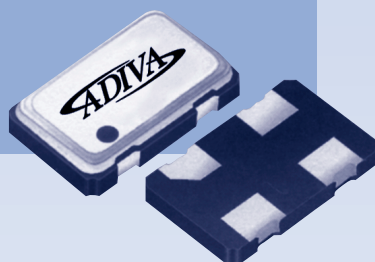


Crystal Clock

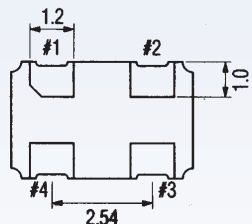
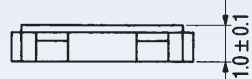
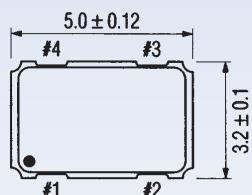
Surface Mount

ADOSM-350 Series (351, 352)

ADOSM-351 & ADOSM-352



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



PIN	CONNECTION
1	STANDBY
2	GND
3	OUTPUT
4	Vcc

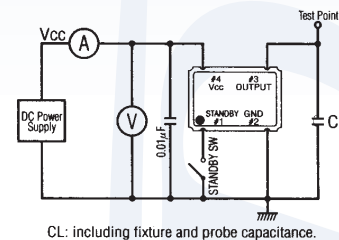
STANDARD SPECIFICATIONS

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 → #3=Output Pin#1 = +2.1V min. → #3=Output Pin#1 = +0.9V max. → #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)	

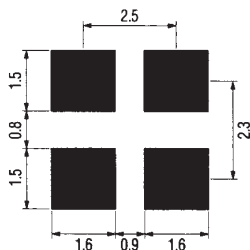
PACKAGE DATA

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

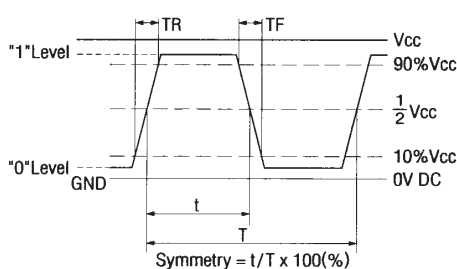
TEST CIRCUIT



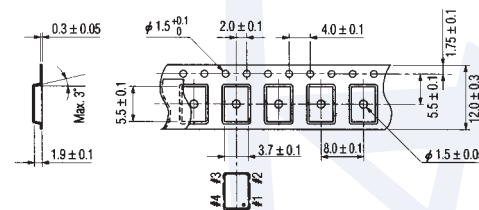
SOLDERING PATTERN



OUTPUT WAVEFORM



TAPE SPECIFICATIONS



1000pcs. per reel (178mm dia.)

SEE PAGE 40 FOR PART NUMBERING GUIDE

Crystal Clock

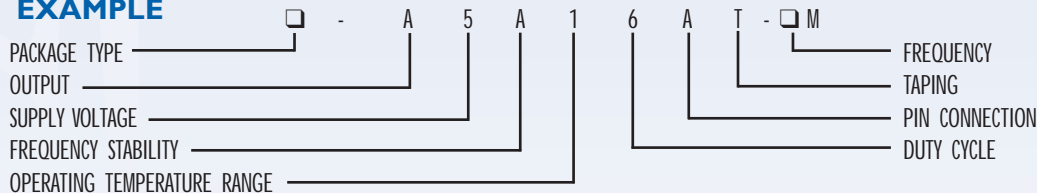
Surface Mount

ADOSM Series



Package Type	ADOSM-351 pg41 ADOSM-352 pg41 ADOSM-361 pg42	ADOSM-471 pg43 ADOSM-576 pg44 ADOSM-581 pg45	ADOSM-582 pg45 ADOSM-583 pg45 ADOSM-584 pg45	ADOSM-1014C pg46 ADOSMPP1 NEW
Output	CMOS	A TTL	B CMOS Compatible	C
Supply Voltage	3.3V	3 5.0V	5	
Frequency Stability Over Temperature	±100 ppm ±50 ppm	A ±30 ppm B ±25 ppm	C ±10 ppm D	E
Operating Temperature Range	0°C to +70°C -10°C to +60°C	1 -20°C to +70°C 2 -40°C to +85°C	3 -10°C to +70°C 4 0°C to +50°C	5 6
Duty Cycle	45/55%	5 40/60%	6	
PIN Connection	Tri-State, E//D	A No Connection		BLANK
Options	None (Standard)	Blank Tape & Reel	T	
Frequency	MHz	M KHz	K	

EXAMPLE



Crystal Clock

Thru Hole

ADOF Series

Package Type	ADOF (Full Size) pg47	ADOH (Half size) pg47
Output / Voltage	HCMOS/TTL/5V Blank TTL/5V T	HCMOS/5V H HCMOS/3.3V L TTL/3.3V TL HCMOS/3.3V HL
Frequency	MHz M	KHz K
Frequency Stability Over Temperature	±10 ppm 1 ±20 ppm 2	±25 ppm 3 ±50 ppm 5
Operating Temperature Range	0°C to +70°C A -10°C to +70°C B	-20°C to +70°C C -30°C to +70°C D
Duty Cycle	45/45% 5	40/60% 6 47.5-52.5% 7
Options	Tri-State T	Tri-State GULL WING TG GULL WING G

same part# guide for ADOFPP1 & ADOHPP1

EXAMPLE

