

Crystal Clock

Thru Hole

ADO Series (ADOF, ADOH)

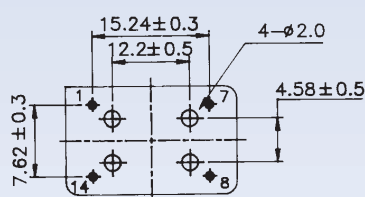
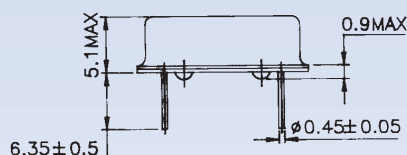
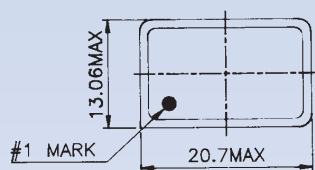
ADOF



ADOH



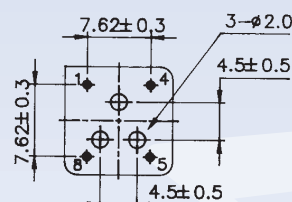
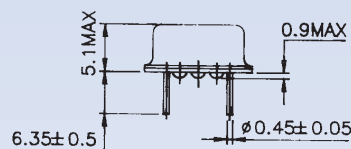
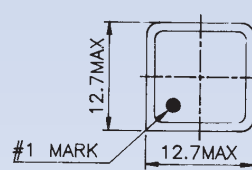
ADOF (unit: mm)



PIN CONNECTION

- 1 N.C or EN/DIS(Tri-State)
- 7 GND
- 8 OUTPUT
- 14 Vcc

ADOH (unit: mm)



PIN CONNECTION

- 1 N.C or EN/DIS(Tri-State)
- 4 GND
- 5 OUTPUT
- 8 Vcc

STANDARD SPECIFICATIONS

Package Type	ADOF	ADOF/ADOH	ADOF/ADOH	
Output	CMOS	TTL	CMOS	TTL & CMOS COMPATIBLE
Frequency Range	32.768 KHz	125 KHz ~ 70 MHz	125 KHz ~ 100 MHz	125 KHz ~ 125 MHz
Frequency Stability	±25 ~ ±100 ppm	±25 ~ ±100 ppm	±25 ~ ±100 ppm	±25 ~ ±100 ppm
Operating Temperature Range	0°C ~ +70°C	0°C ~ +70°C	0°C ~ +70°C	0°C ~ +70°C
Power Supply				
Osc. Voltage	5.0V DC	+5.0V DC ±10% +3.3V DC ±10%	+5.0V DC ±10% +3.3V DC ±10%	+5.0V DC ±10% +3.3V DC ±10%
Osc. Current	200 µA max.	20 ~ 80 mA max.	10 ~ 80 mA max.	10 ~ 80 mA max.
Output				
Duty Cycle	50%±10% (1/2 VDD)	50%±10% (1.4V)	50%±10% (1/2 VDD)	50%±10% (TTL: 1.4V, C-MOS: 1/2VDD)
Rise/Fall Time	1 ns max.	10 ns max.	10 ns max.	10 ns max.
Fan Out	15 pF	1 to 10 TTL	15 pF	1 to 10 TTL, 15 pF
Option	Duty 55/45, Tri-State	Duty 55/45, Tri-State	Duty 55/45, Tri-State	Duty 55/45, Tri-State

Crystal Clock

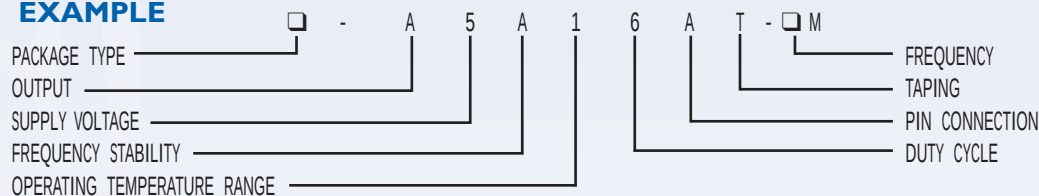
Surface Mount

ADOSM Series



Package Type	ADOSM-351	pg41	ADOSM-471	pg43	ADOSM-582	pg45	ADOSM-1014C	pg46
	ADOSM-352	pg41	ADOSM-576	pg44	ADOSM-583	pg45		
	ADOSM-361	pg42	ADOSM-581	pg45	ADOSM-584	pg45	ADOSMPP1	NEW
Output	CMOS	A	TTL	B	CMOS Compatible	C		
Supply Voltage	3.3V	3	5.0V	5				
Frequency Stability Over Temperature	±100 ppm	A	±30 ppm	C	±10 ppm	E		
	±50 ppm	B	±25 ppm	D				
Operating Temperature Range	0°C to +70°C	1	-20°C to +70°C	3	-10°C to +70°C	5		
	-10°C to +60°C	2	-40°C to +85°C	4	0°C to +50°C	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

ADO Series

Package Type	ADO (Full Size) pg47		ADOH (Half size) pg47			
	HCMS/TTL/5V	Blank	HCMS/5V	H	TTL/3.3V	TL
Output / Voltage	TTL/5V	T	HCMS/3.3V	L	HCMS/3.3V	HL
Frequency	MHz	M	KHz	K		
Frequency Stability Over Temperature	±10 ppm	1	±25 ppm	3	±100 ppm	10
	±20 ppm	2	±50 ppm	5		
Operating Temperature Range	0°C to +70°C	A	-20°C to +70°C	C	-40°C to +85°C	E
	-10°C to +70°C	B	-30°C to +70°C	D	-55°C to +125°C	F
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

