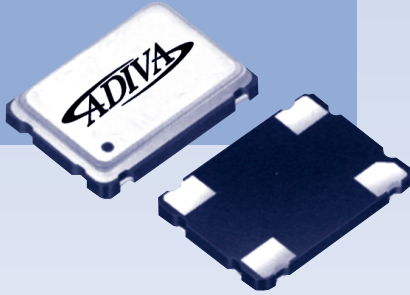


Crystal Clock

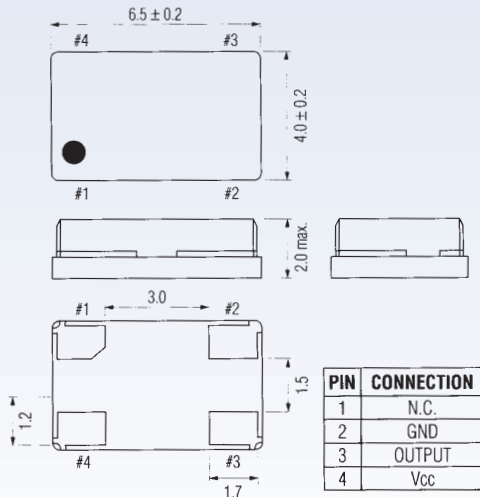
Surface Mount

ADOSM-470 Series (471)

ADOSM-471



UNIT DIMENSION (unit: mm)



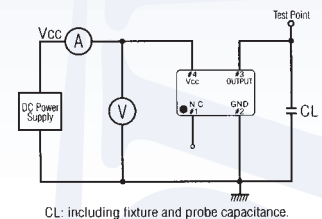
STANDARD SPECIFICATIONS

Package Type	ADOSM-471
Output Frequency	32.768 KHz
Frequency Stability	+30 ppm to -60 ppm over all conditions (-10°C to +60°C)
Operating Conditions	
Operating temperature	-10°C to +60°C
Storage temperature	-40°C to +85°C
Input voltage (Vcc)	+3.3V DC ±0.3V
Input Current	15 μ A max. (8 μ A, Typical) with 15pF load
Output (-10°C to +60°C)	
Symmetry	50% \pm 5% at 1/2Vcc level
Rise and fall times	200 ns, Typical
"0" Level	Vcc X 0.1V max.
"1" Level	Vcc X 0.9V min.
Load	15 pF max. (CMOS)
Reflow Soldering Conditions	+230°C \pm 5°C for 10 seconds +150°C \pm 10°C for 1 to 2 minutes (preheating)

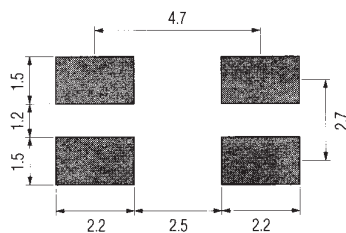
PACKAGE DATA

Item / Package	ADOSM-471
COVER	Metal
BASE	Ceramic
TERMINAL PLATING	Gold

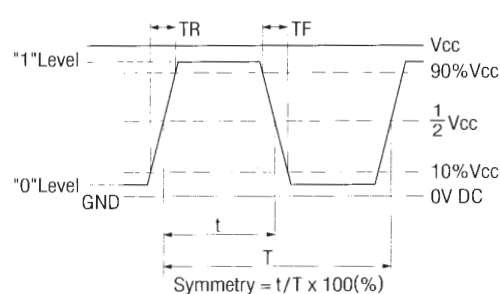
TEST CIRCUIT



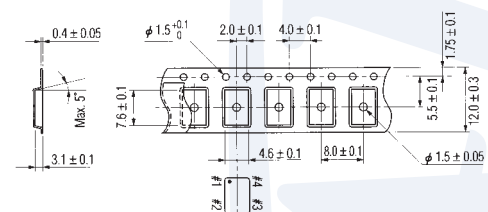
SOLDERING PATTERN



OUTPUT WAVEFORM



TAPE SPECIFICATIONS



1000pcs. per reel (330mm dia.)

Crystal Clock

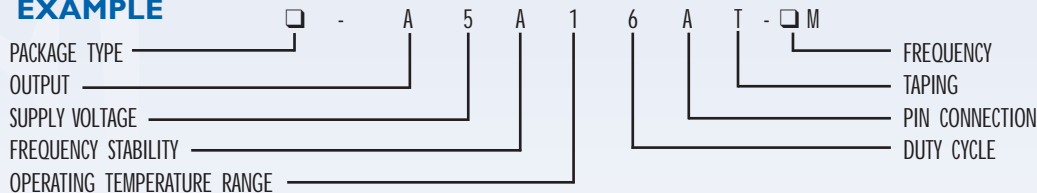
Surface Mount

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

ADOF Series

Package Type	ADOF (Full Size) pg47	ADOH (Half size) pg47
Output / Voltage	HCMOS/TTL/5V Blank	HCMOS/5V H TTL/3.3V TL
	TTL/5V T	HCMOS/3.3V L HCMOS/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

