



Evaluation Board for AK8127/8

AKD8127/8

Description

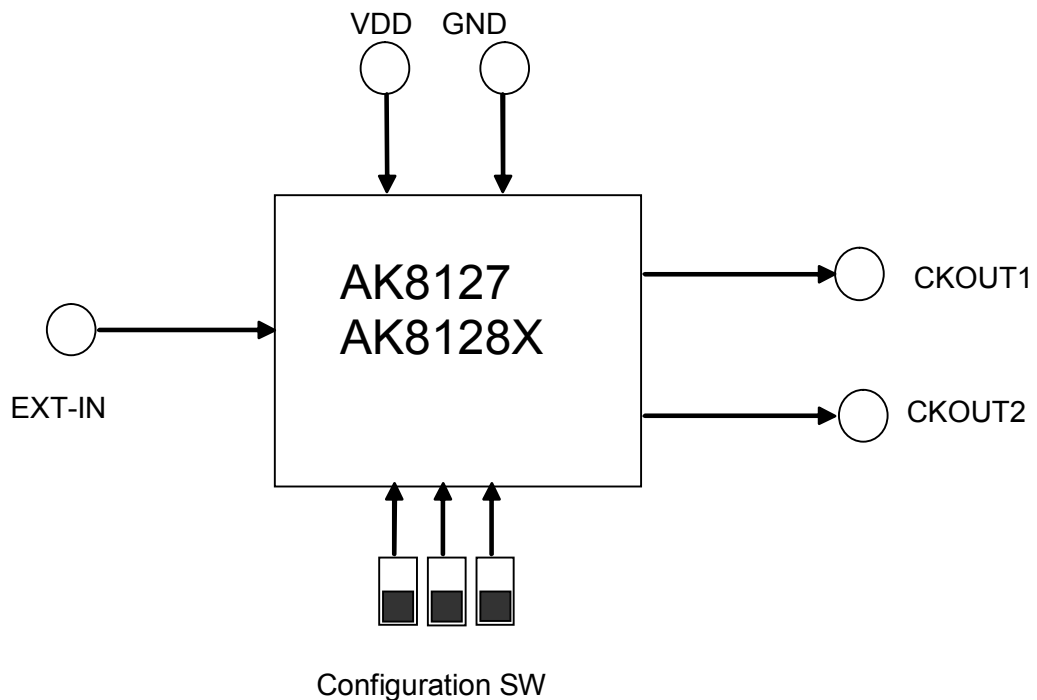
The AKD8127/8 is a common evaluation board for clock generator, AK8127 and AK8128 family. Therefore, it is possible to evaluate spectrum characteristics and other performances.

Ordering guide

- AKD8127XY

	Device Type
XY:70:	AK8127
8A:	AK8128A
8B:	AK8128B
8C:	AK8128C

Block Diagram



AKD8127 Evaluation Board

Functions

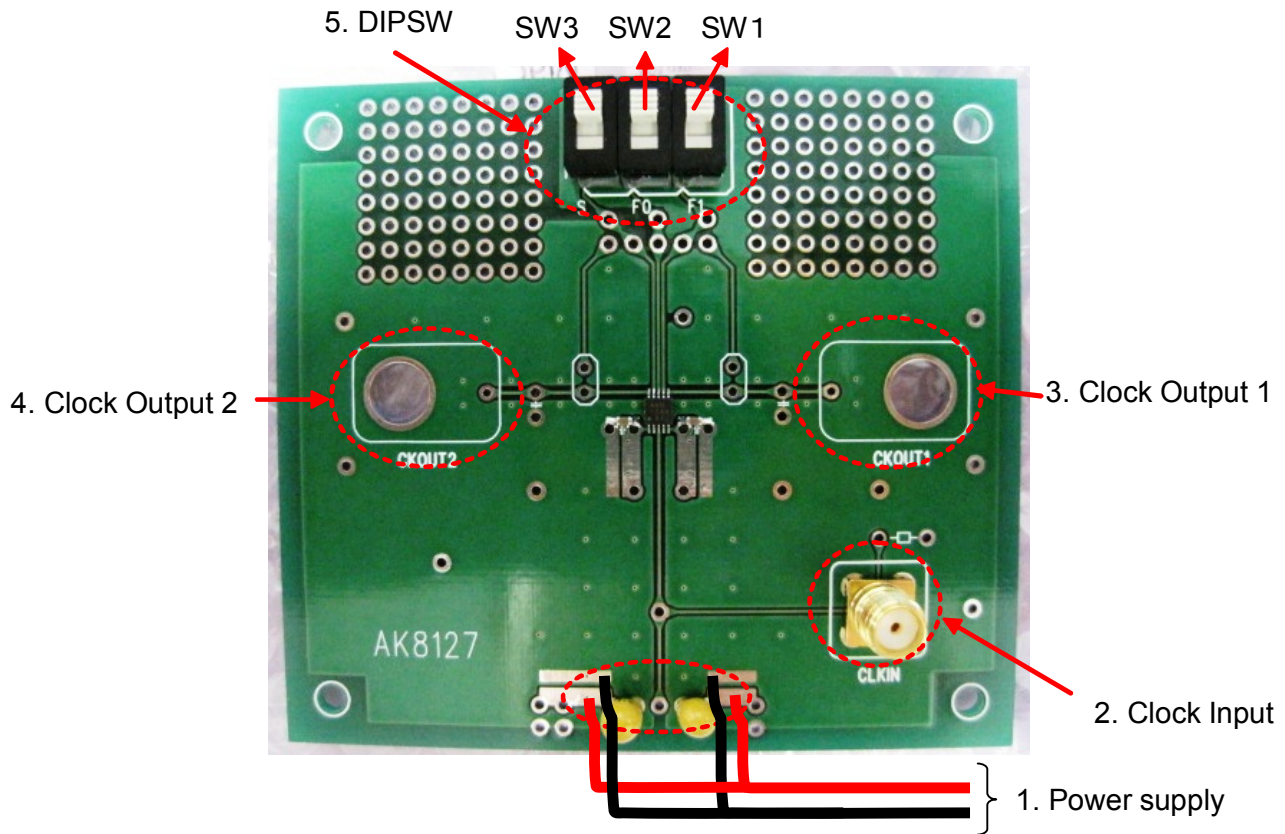


Figure1. AKD8127/8 Top view

1. Power Supply

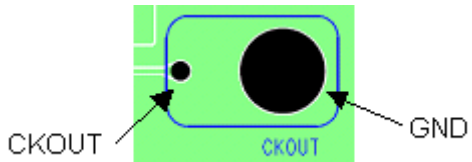
Please connect the lead line to VDD (3.3V; Red) and VSS (GND; Black).

2. Clock input

It is possible to input clock from SMA-A connector.

3. 4. Clock output

Clock output from AK8127_AK8128X leads to this connector. Spectrum Analyzer or Oscilloscope is available to measure clock performances by connecting here.



	AK8127	AK8128A	AK8128B	AK8128C
CLKOUT1	CKOUT1	-	-	CKOUT
CLKOUT2	CKOUT2	CKOUT	CKOUT	-

5. DIPSW

	L: Connect to GND
	M: Open
	H: Connect to VDD

5.1 AK8127

SW3 Spread Ratio Selection

SW3 (S: Pin9)	Spread Ratio
L	$\pm 1.5\%$
M (L)	$\pm 1.5\%$
H	$\pm 3.0\%$

SW2 SW3 Output Frequency Selection

SW1(F1:Pin7)	SW2(F0:Pin8)	CKOUT1(MHz)	CKOUT2(MHz)
L	L	20	60
L	M	20	75
L	H	20	80
M(L)	L	20	60
M(L)	M	20	75
M(L)	H	20	80
H	L	20	95
H	M	20	97.5
H	H	20	96.675

5.2 AK8128A

SW3 SW2 Output Frequency Selection

SW3(F1:Pin9)	SW2(F0:Pin8)	CKOUT(MHz)
L	L	74.25
L	M(L)	74.25
L	H	74.25/1.001
M(L)	L	74.25
M(L)	M(L)	74.25
M(L)	H	74.25/1.001
H	L	148.5
H	M(L)	148.5
H	H	148.5/1.001

SW1 Not Used

5.3 AK8128B

SW3 SW2 Output Frequency Selection

SW3(F1:Pin9)	SW2(F0:Pin8)	CKOUT(MHz)
L	L	74.25
L	M(L)	74.25
L	H	74.25/1.001
M(L)	L	74.25
M(L)	M(L)	74.25
M(L)	H	74.25/1.001
H	L	148.5
H	M(L)	148.5
H	H	148.5/1.001

SW1 Input Clock Frequency Selection

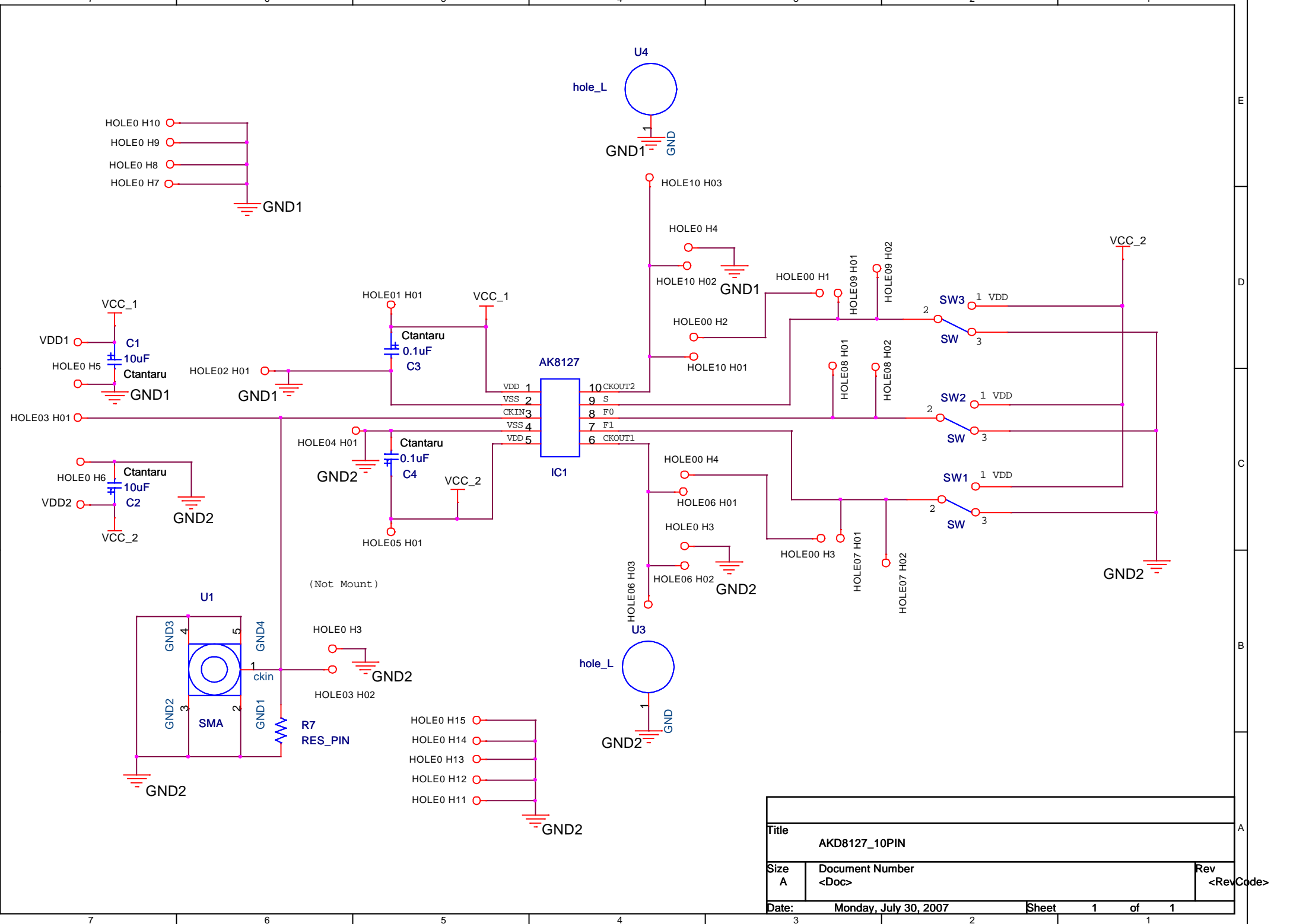
SW1 (S: Pin9)	Input Frequency (MHz)
L	27.000
M (L)	27.000
H	48.000

5.4 AK8128C

SW3 SW2 Output Frequency Selection

SW3(F1:Pin9)	SW2(F0:Pin8)	CKOUT(MHz)
L	L	33.8688
L	M(L)	33.8688
L	H	36.864
M(L)	L	33.8688
M(L)	M(L)	33.8688
M(L)	H	36.864
H	L	12.288
H	M(L)	12.288
H	H	24.576

SW1 Not Used



Title		
AKD8127_10PIN		
Size	Document Number	Rev
A	<Doc>	<RevCode>
Date:	Monday, July 30, 2007	Sheet 1 of 1