COSEL Ripple noise attenuation type for switch mode power supplies(DC)

Ordering information

SNA series (1A,3A)





1)Model Name 2)Rated Current

③Line to ground capacitor code:See table 1.1.

table1.1 Line to ground capacitor code

Code	Line to ground capacitor (nominal value)
000	Not Provided
223	22000pF

Options
Difference

D:DIN rail installation type

* The dimensions change when the option is set. Refer to External view.

Features of SNA series (1A and 3A)

Ripple noise attenuation type for switch mode power supplies(DC)

 \cdot ±50 VDC

- Best filter for switch mode power supplies of analog circuits
 - (ex. power supply filter for an operational amplifier)

Specifications

	Items	SNA-01-223	SNA-03-223
No.		Interface:Connector	
1	Rated Voltage DC[V]	±50 (+Vin - COM-in, -Vin - COM-in)	
2	Rated Current DC[A]	1	3
3	Test Voltage (Terminal-Mounting Plate)	500 VAC (Cutoff Current = 100mA), 1minute at room temperature and humidity	
4	Isolation Resistance (Terminal-Mounting Plate)	500 VDC 50M Ω min at room temperature and humidity	
5	DC resistance	190mΩ max	90mΩ max
6	Operating temperature	-40 to +71°C (Refer to Derating Curve)	
7	Operating humidity	20 to 95%RH (Non condensing)	
8	Storage temperature/humidity	-40 to +75°C/20 to 95%RH (Non condensing)
9	Vibration	10 to 55Hz, 19.6m/s ² (2G), 3min. Period, 1hour each X, Y and Z axis	
10	Impact	196.1m/s ² (20G), 11ms Once each X, Y and Z axis	
11	Safety agency approvals	UL60950-1, C-UL (CSA60950-1), IEC60950-	-1
12	Case size (without projection) /Weight	52×35×93 mm [2.05×1.38×3.66 inches] (W×	H×D) /130g max (Option : -D refer to external view)



CY : Line to ground capacitor Co : Electrolytic capacitor $\frac{1}{2}$: Mounting Plate

Expected life : 10 years

Derating Curve



SNA series (1A,3A) COSEL



External view



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DIN rail installation Type







Option harness : Refer to Instruction Manual 4

(Mfr:J.S.T)



- % Weight : 130g max
- % PCB Material /thickness : CEM3 /1.6mm [0.06 inches]
- % Mounting plate : Iron (surface finishing : nickel plating) t=1.0 [0.04]

CN3 Pin No

CN4

1,2

3,4

Pin No.

12

3,4

- ※ Case : PBT
- % Dimensions in mm, []=inches
- % Keeping drawing current per pin below 2A for CN1 to CN4



		CN1		
		Pin No.	Function	
I		1,2	COM-in	
		3,4	+Vin	
	l In	CN2		C
		Pin No.	Function	
		1,2	-Vin	
		3,4	COM-in	
		I/O C	onnector	Mating connector
]	CN1~CN4	B4B-XH-AM	XHP-4

(Mfr:J.S.T)

Function

Function

COM-out

+Vout

-Vout

Terminal

Reel:SXH-001T-P0.6 Bulk:BXH-001T-P0.6

COM-out

Option harness : Refer to Instruction Manual 4

- % Tolerance : ±1 [±0.04]
- % Weight : 140g max
- % PCB Material /thickness : CEM3 /1.6mm [0.06 inches]
- % Mounting plate : Iron (surface finishing : nickel plating) t=1.0 [0.04]
- ※ Case : PBT
- % Dimensions in mm, []=inches
- % Keeping drawing current per pin below 2A for CN1 to CN4



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E

Filter on a DIN rail.

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When the EMI/EMC Filter is grounded through the DIN rail, the proper noise attenuation may not be achieved.

Be sure to connect the FG terminal of the EMI/ EMC Filter body to the earth.





Features of SNA series (6A)

Ripple noise attenuation type for switch mode power supplies(DC)

 \cdot ±50 VDC

- Best filter for switch mode power supplies of analog circuits
 - (ex. power supply filter for an operational amplifier)

Specifications

No.	Items	SNA-06-223			
		Interface:Connector			
1	Rated Voltage DC[V]	±50 (+Vin - COM-in, -Vin - COM-in)			
2	Rated Current DC[A]	6			
3	Test Voltage (Terminal-Mounting Plate)	500 VAC (Cutoff Current = 100mA), 1minute at room temperature and humidity			
4	Isolation Resistance (Terminal-Mounting Plate)	500 VDC 50M Ω min at room temperature and humidity			
5	DC resistance	$50m\Omega$ max			
6	Operating temperature	-40 to +71°C (Refer to Derating Curve)			
7	Operating humidity	20 to 95%RH (Non condensing)			
8	Storage temperature/humidity	-40 to +75°C/20 to 95%RH (Non condensing)			
9	Vibration	10 to 55Hz, 19.6m/s ² (2G), 3min. Period, 1hour each X, Y and Z axis			
10	Impact 196.1m/s ² (20G), 11ms Once each X, Y and Z axis				
11	Safety agency approvals	UL60950-1, C-UL (CSA60950-1), IEC60950-1			
12	Case size (without projection) /Weight	52×35×117 mm [2.05×1.38×4.61 inches] (W×H×D) /150g max (Option : -D, -T, -DT refer to external view)			



CY : Line to ground capacitor Co : Electrolytic capacitor $\frac{1}{2}$: Mounting Plate

Expected life : 10 years

Derating Curve



SNA series (6A)



External view



■Note when installing the EMI/EMC Filter on a DIN rail.

When the EMI/EMC Filter is grounded through the DIN rail, the proper noise attenuation may not be achieved.

Be sure to connect the FG terminal of the EMI/ EMC Filter body to the earth.

