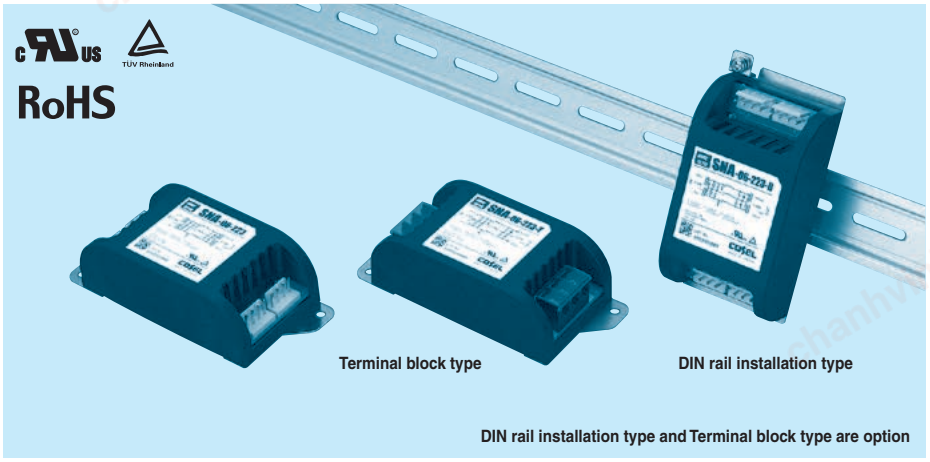
chanhvinh.com

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

# SNA series (6A)




## Ordering information

SNA -06 -223 -□

① ② ③ ④

①Model Name
②Rated 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 |

④Options
D :DIN rail installation type
T :Terminal block type
DT :Terminal block and DIN rail type

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

## Features of SNA series (6A)

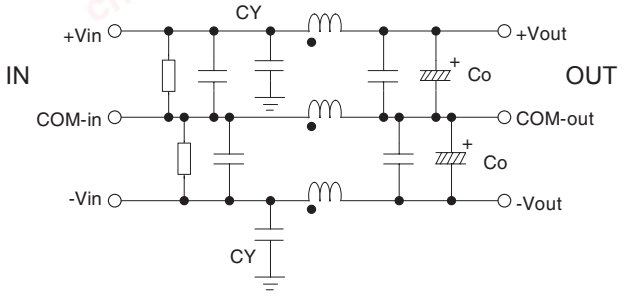
### Ripple noise attenuation type for switch mode power supplies(DC)

- ±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 50MΩ min at room temperature and humidity |
| 5 | DC resistance | 50mΩ max |
| 6 | Operating temperature | -40 to +71℃ (Refer to Derating Curve) |
| 7 | Operating humidity | 20 to 95%RH (Non condensing) |
| 8 | Storage temperature/humidity | -40 to +75℃/20 to 95%RH (Non condensing) |
| 9 | Vibration | 10 to 55Hz, 19.6m/s² (2G), 3min. Period, 1hour each X, Y and Z axis |
| 10 | Impact | 196.1m/s² (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) |

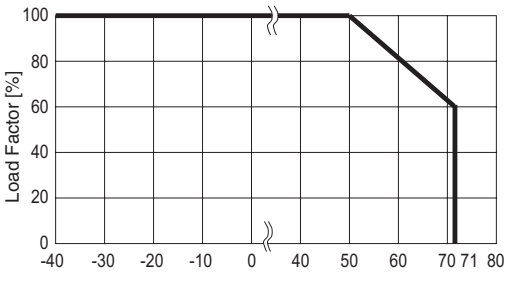
## Circuit Diagram




CY : Line to ground capacitor Co : Electrolytic capacitor ⏚ : Mounting Plate

■Expected life : 10 years

## Derating Curve

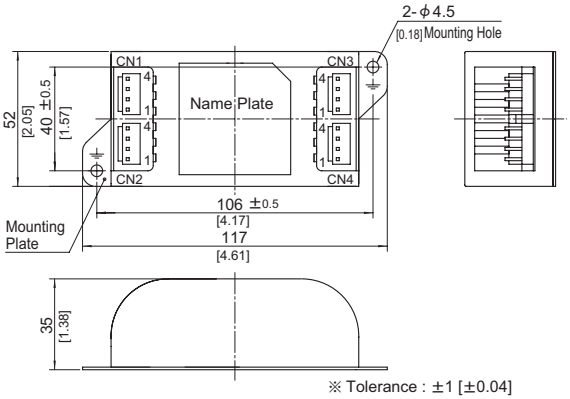


chanhvinh.com



## External view

### Standard Type




※ Tolerance : ±1 [±0.04]
※ Weight : 150g 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 5A for CN1 to CN4

CN1

| Pin No. | Function |
|---|---|
| 1,2 | COM-in |
| 3,4 | +Vin |

CN3

| Pin No. | Function |
|---|---|
| 1,2 | COM-out |
| 3,4 | +Vout |

CN2

| Pin No. | Function |
|---|---|
| 1,2 | -Vin |
| 3,4 | COM-in |

CN4

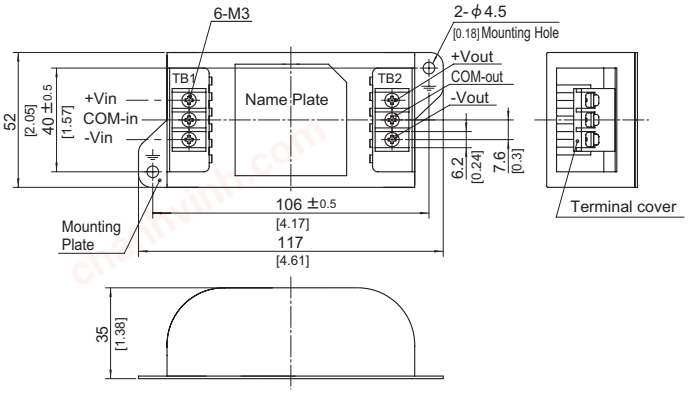
| Pin No. | Function |
|---|---|
| 1,2 | -Vout |
| 3,4 | COM-out |

| I/O Connector | Mating connector | Terminal |
|---|---|---|
| CN1~CN4 | B4P-VH | VHR-4N | Reel:SVH-21T-P1.1 |
| | | | Bulk:BVH-21T-P1.1 |

(Mfr:J.S.T)

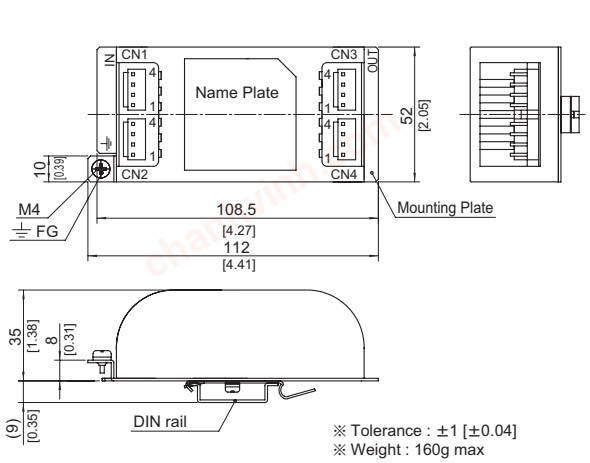
Option harness : Refer to Instruction Manual 4

### Terminal block Type




※ Tolerance : ±1 [±0.04]
※ Weight : 160g 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
※ Terminal block screw tighting torque M3:0.8N・m (8.5kgf・cm) max

### DIN rail installation Type




※ Tolerance : ±1 [±0.04]
※ Weight : 160g 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 5A for CN1 to CN4

CN1

| Pin No. | Function |
|---|---|
| 1,2 | COM-in |
| 3,4 | +Vin |

CN3

| Pin No. | Function |
|---|---|
| 1,2 | COM-out |
| 3,4 | +Vout |

CN2

| Pin No. | Function |
|---|---|
| 1,2 | -Vin |
| 3,4 | COM-in |

CN4

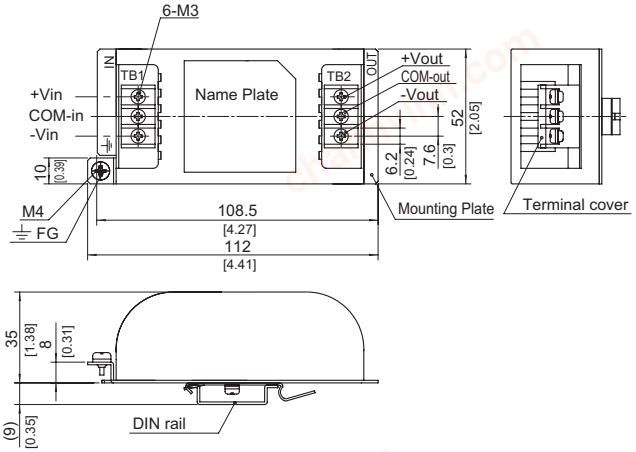
| Pin No. | Function |
|---|---|
| 1,2 | -Vout |
| 3,4 | COM-out |

| I/O Connector | Mating connector | Terminal |
|---|---|---|
| CN1~CN4 | B4P-VH | VHR-4N | Reel:SVH-21T-P1.1 |
| | | | Bulk:BVH-21T-P1.1 |

(Mfr:J.S.T)

Option harness : Refer to Instruction Manual 4

### Terminal block type+DIN rail installation Type




※ Tolerance : ±1 [±0.04]
※ Weight : 170g 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
※ Terminal block screw tighting torque M3:0.8N・m (8.5kgf・cm) max

## ■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.**

