

Model

HN Series

High Efficiency
DC — DC Converters

+5 V Input

Fixed Output

Ultra-Compact

General Notes

Short ProtectionDC/DC Converter Shuts Down After an Output Based Short Circuit. Converter Starts Up after Power (V_{IN}) is Turned On and Off.

On/Off RemoteDC/DC Converter is Controlled by Remote

Physical Specifications

Dimensions:13.5 mm x 35.0 mm x 4.3 mm
(0.531" x 1.38" x 0.169")

Operating Temp:0 to 60 °C

Relative Humidity:20% to 90%, non-condensing

Storage:-20 to 180 °C/5-95% RH

Options

Active HiActive Low

W/O Remote On-Off

Electrical Characteristics*

Ordering Code	Output Voltage (Vdc)	Input Voltage (Vdc)	Output Current (mA)	Min. Total Regulation ②	Efficiency ③	Max. Output Ripple Noise (mVp-p) ①	On/Off Remote
HNN-01	-24						
HNN-02	-23	4.5 - 5.5	0.0 - 20	±5%	Min. 70%	200	No
HNN-03	-22						
HNH-01	-24						
HNH-02	-23	4.5 - 5.5	0.0 - 20	±5%	Min. 70%	200	Active ④
HNH-03	-22						
HNL-01	-24						
HNL-02	-23	4.5 - 5.5	0.0 - 20	±5%	Min. 70%	200	Active ⑤
HNL-03	-22						

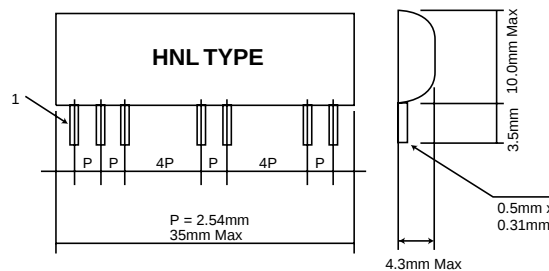
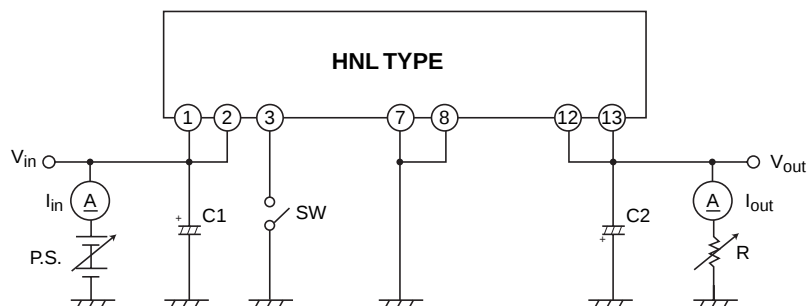
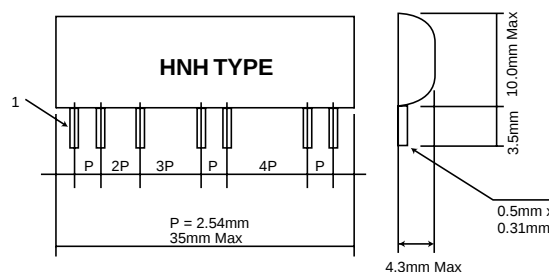
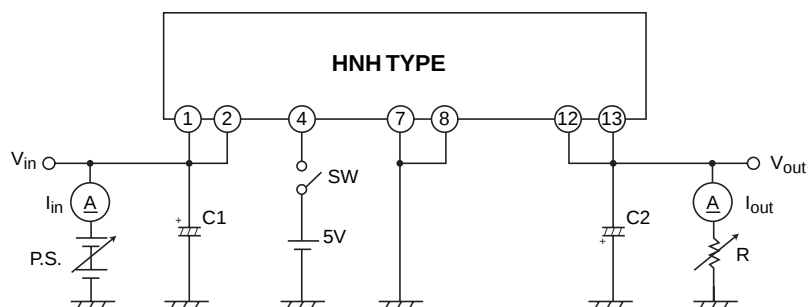
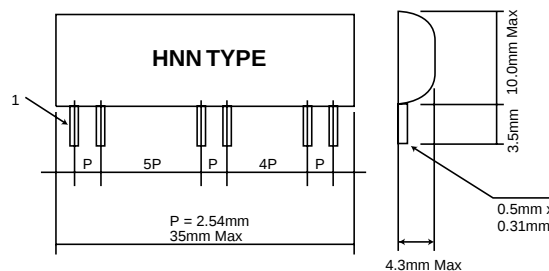
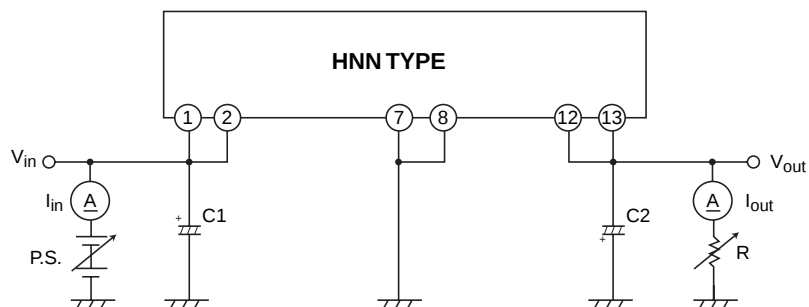
*Above Specifications Occur @ 25 °C
Input-Side Capacitor = 47 µF/35 V. Output-Side Capacitor = LXF35VB27 (Nippon Cemicon Co. Ltd.) unless otherwise noted

① Tester to Syncroscope (100 MHz)
② Occurs at: V_{in} = 10 - 25 V; I_{out} = 0.0 - 20 mA; T_a = 0.0 - 60 °C
③ Occurs at: I_{out} = 0.0 - 30 mA
④ Occurs at: 'H' Level = On; 'L' Level = Off; H = 2.5 - 5.5 V & L = 0.5 V Max.
⑤ Occurs at: 'H' Level = Off; 'L' Level = On; H = (V_{in} - 0.5 V) - OPEN & L = 0.0 - (V_{in} - 2.5 V)

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Test Circuits

Outline Dimensions



Test Conditions:

C1: 47 μF / 10V

C2: Model LXF35VB27 (Nippon Chemicon Co., Ltd.)

P.S. = DC Power Supply

HNN: Connect pin 3 to pin 6, and pin 9 to pin 11 during testing.

HNH: Connect pin 9 to pin 11 during testing.

HNL: Connect pin 4 to pin 6, and pin 9 to pin 11 during testing.



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