

Model

HW Series

High Efficiency

DC — DC Converters

Wide Range Input

Fixed Output

Ultra-Compact

General Notes

Short Protection

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

On/Off Remote

DC/DC Converter is Controlled by Remote

Physical Specifications		Options	
Dimensions:	13 mm x 28.5 mm x 6.5 mm (0.512" x 1.12" x 0.256")	Active Hi W/O Remote On-Off	Active Low
Operating Temp:	0 to 60 °C		
Relative Humidity:	20% to 90%, non-condensing		
Storage:	-20 to 180 °C/5-95% RH		

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
HWN-01	-24						
HWN-02	-23	10 - 25	0.0 - 30	±5%	75%	200	No
HWN-03	-22						
HWH-01	-24						
HWH-02	-23	10 - 25	0.0 - 30	±5%	75%	200	Active ④
HWH-03	-22						
HWL-01	-24						
HWL-02	-23	10 - 25	0.0 - 30	±5%	75%	200	Active ⑤
HWL-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 - 30 mA; T_a = 0.0 - 60 °C

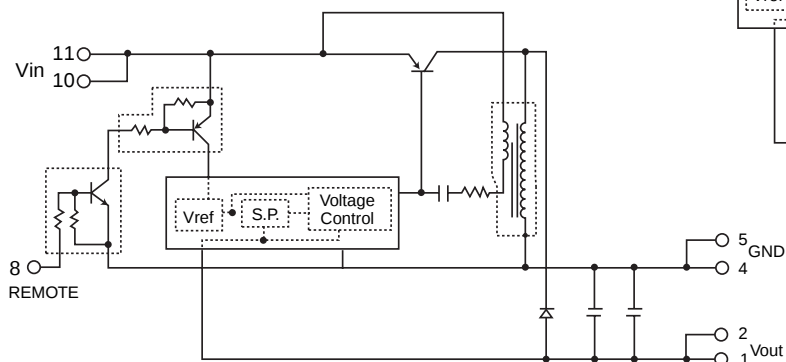
③ Occurs at: I_{out} = 0.0 - 30 mA

④ Occurs at: 'H' Level = On; 'L' Level = Off; H = 2.5 - 5.5 V & L = 0.5 V Max.

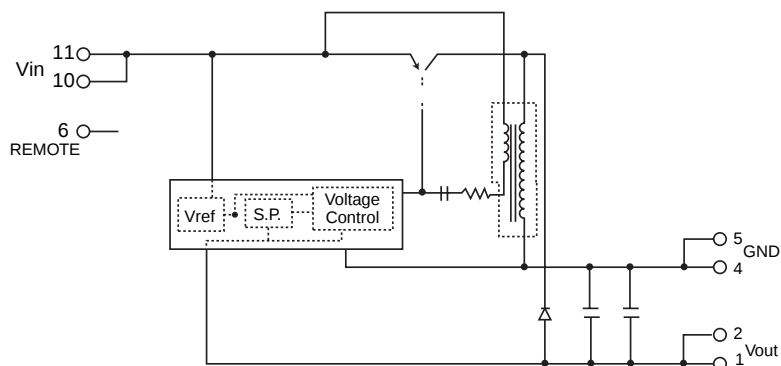
⑤ Occurs at: 'H' Level = Off; 'L' Level = On; H = (V_{in} - 0.5 V) - OPEN & L = 0.0 - (V_{in} - 2.5 V)

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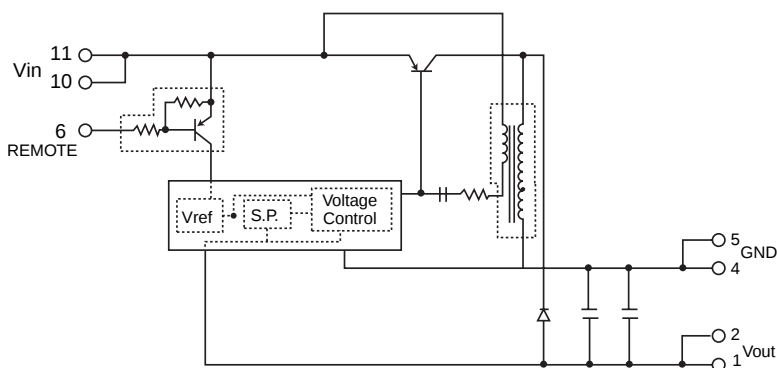
HWH TYPE



HWN TYPE



HWL TYPE



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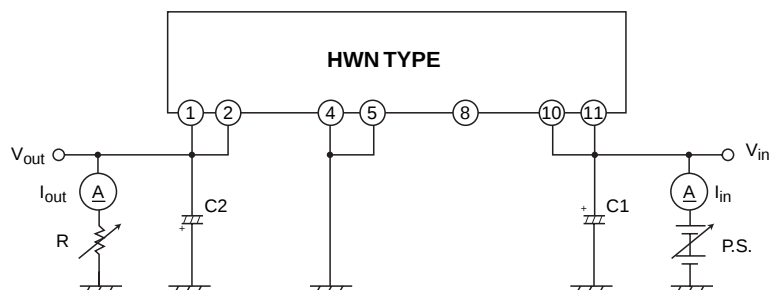
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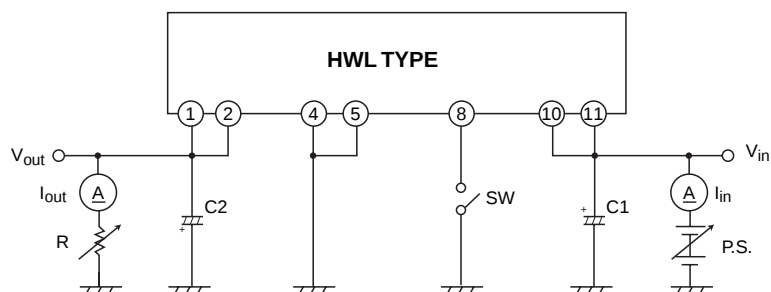
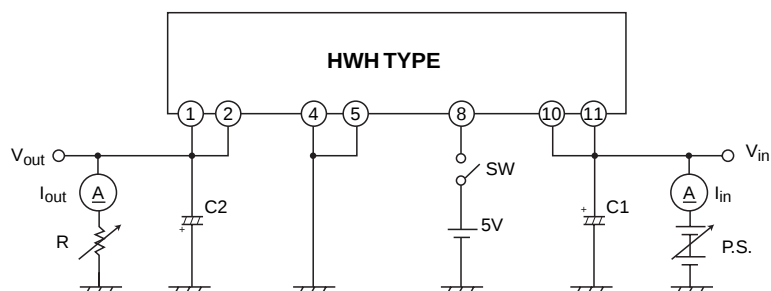
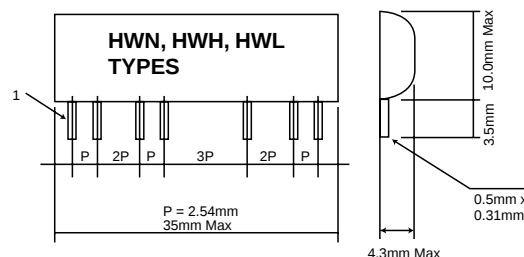
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Model HW Series

Test Circuits



Outline Dimensions



Test Conditions:

C1: 47 μF / 35V

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

P.S. = DC Power Supply



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