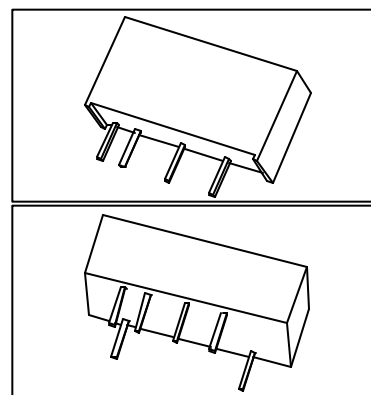


TECHNICAL DATA
DATA SHEET 1000, REV. -

1 WATT ISOLATED MINIATURE DC-DC CONVERTERS

FEATURES:

- Isolation Voltage: 1000Vdc
- Isolation Resistance (1): 1000MW (min.)
- Over Current Protection: Temporary Short-Circuit Protection
- Case Temp Rise: 40°C (max)
- Cooling Method: Free-Air Cooling
- Standby Power Dissipation: 100mW
- Operating Temp.: -40°C~85°C
- Storage Temp.: -50°C~125°C
- Humidity: ≤95%
- Soldering Temp (2): 230°C
- Case Material: Non-Flammable Material (UL94-V0)



IMXXXXHX1W Series Input Characteristics

Product Type	Nominal Input Voltage	Input Voltage Range	Transient Voltage (3)
IM05XXHS/D1W	5Vdc	4.75~5.25Vdc	6Vdc
IM12XXHS/D1W	12Vdc	11.4~12.6Vdc	14Vdc
IM15XXHS/D1W	15Vdc	14.25~15.75Vdc	18Vdc
IM24XXHS/D1W	24Vdc	22.8~25.2Vdc	27Vdc
IM48XXHS/D1W	48Vdc	45.6~50.4Vdc	52Vdc

IMXXXXHX1W Series Output Characteristics

Specifications are standard at Input nominal voltage, full output load and $T_A=25^\circ\text{C}$ unless otherwise specified.

Part Number	IMXX05HX1W	IMXX09HX1W	IMXX12HX1W	IMXX15HX1W
Output Voltage	5Vdc	9Vdc	12Vdc	15Vdc
Full Load Output Current	150mA	111mA	83mA	67mA
Output Voltage Tolerance	±3%			
Load Regulation	0.5% max.			
Line Regulation	0.3% max.			
Temp Coefficient	0.03%/°C (typical)			
Ripple (20MHz band width)	20mV p-p max.			
Efficiency @ 100% Load, 5V Input	55%	60%	63%	65%
Efficiency @ 100% Load, 12V, 15V, 24V, 48V Input	65%	70%	72%	75%

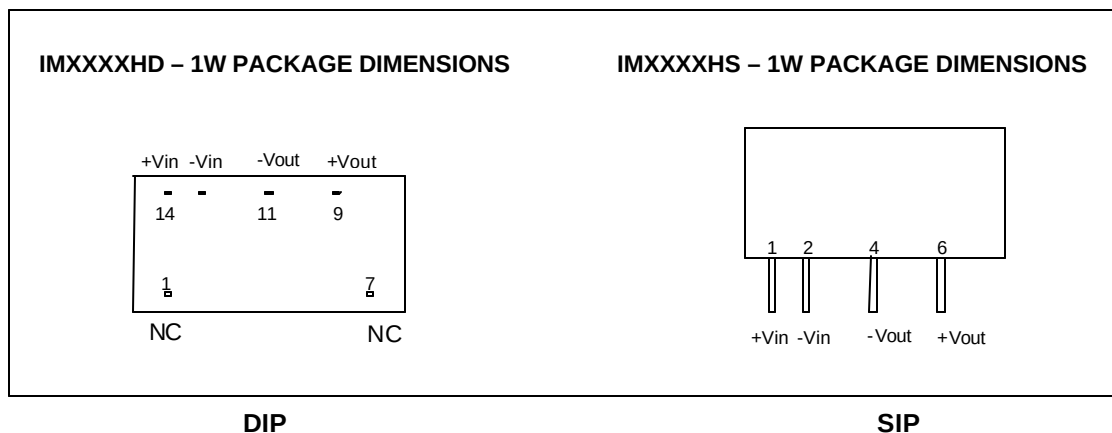
*1- Test @ $T_A = 25^\circ\text{C}$ and under 70% of the humidity with 500Vdc.

*2- Soldering for 5 seconds at 1.5mm away from the edge.

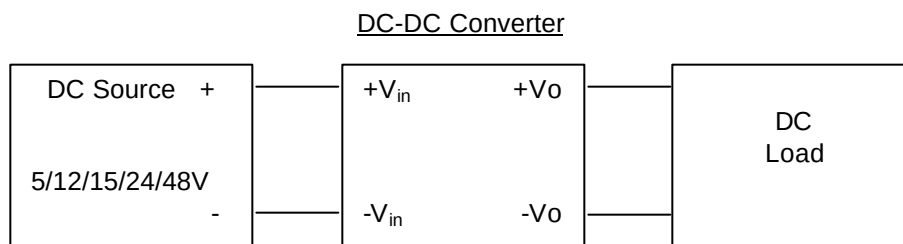
*3- The excessive over voltage above this value may cause permanent damage to the device.

TECHNICAL DATA
DATA SHEET 1000, REV. -

PIN CONFIGURATION



BLOCK DIAGRAM



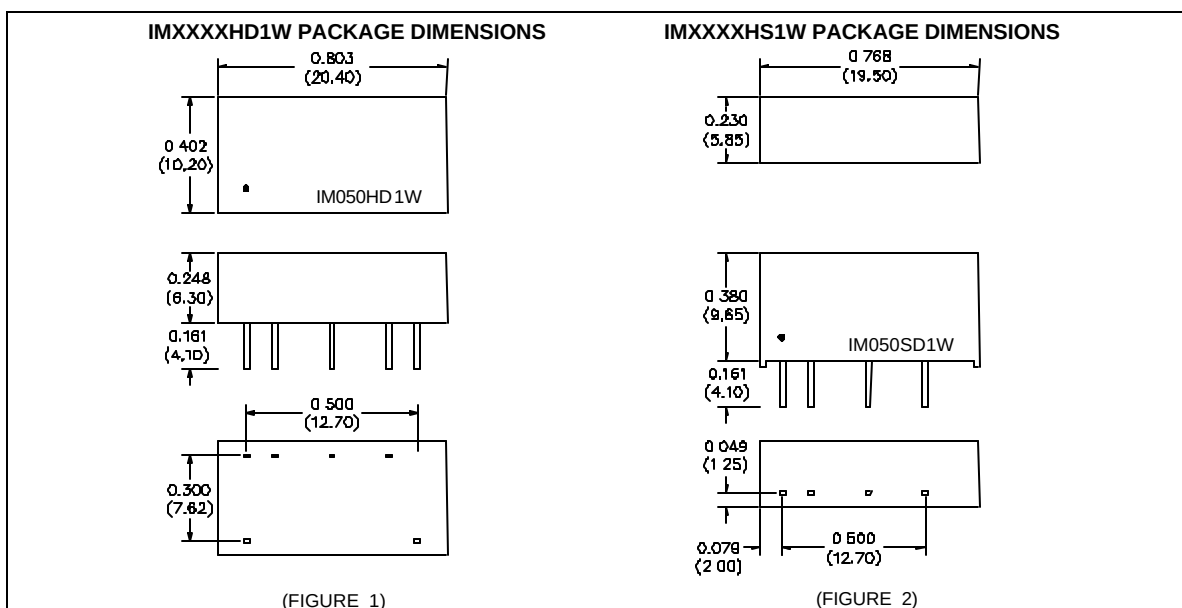
Part Number Definition / Ordering information:

I M XX YY H S / D 1W

I = Isolated
M = Miniature
XX = Input Voltage
YY = Output Voltage
H = Temperature Range (-40°C ~ +85°C)
S/D = Single inline package / Dual inline package
1W = Output Wattage

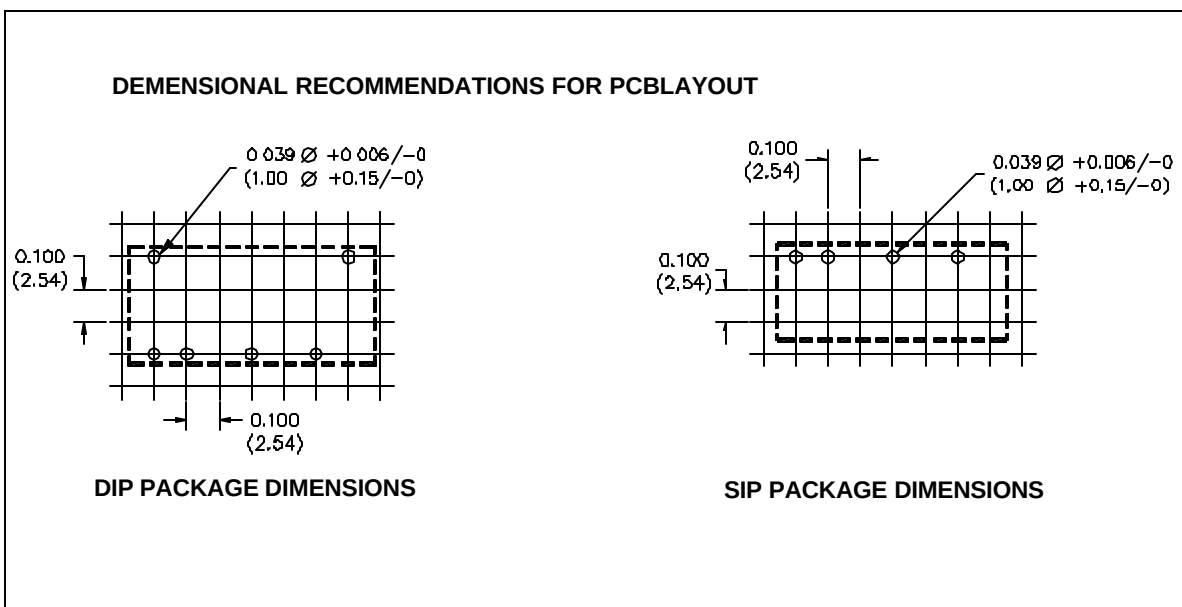
TECHNICAL DATA
DATA SHEET 1000, REV. -

Mechanical Dimension: in inches / (mm)



DIP

SIP



DIP PACKAGE DIMENSIONS

SIP PACKAGE DIMENSIONS