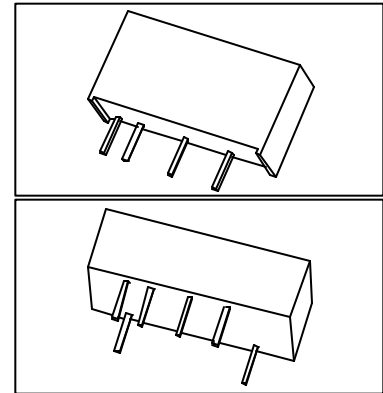


**TECHNICAL DATA  
DATA SHEET 1000, REV. -**

## 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)**


**IMXXXHX1W 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

**IMXXXHX1W 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.

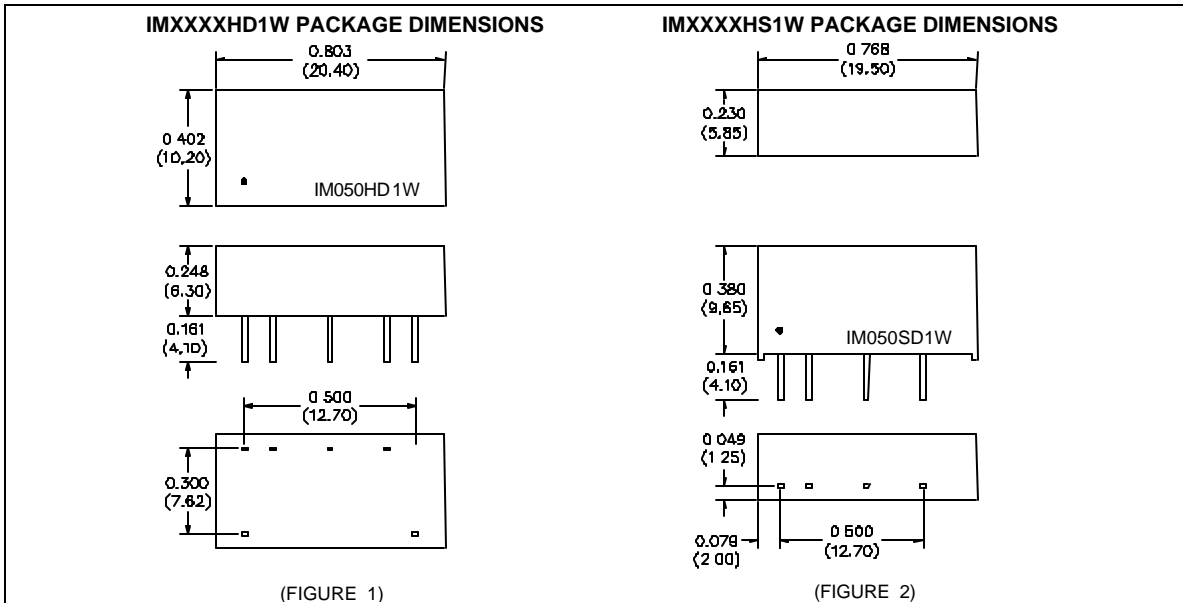
\*2- Soldering for 5 seconds at 1.5mm away from the edge.

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



TECHNICAL DATA  
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Mechanical Dimension: in inches / (mm)



DIP

SIP

