

TECHNICAL DATA
DATA SHEET 1108, REV. -

DC-DC Converters

Fixed Input, 1000V Isolation, Unregulated, Single Output, Mini-Package

FEATURES:

- Isolation Voltage: 1000Vdc
- Isolation Resistance (1): 1000MW
- Short-Circuit Duration: 1 second
- Case Temperature Rise: Max. 25° C, Typ. 15° C
- Cooling Method: Free-Air Cooling
- Standby Power Dissipation: 1W (100mW)
- Operating Temp.: -40° C ~ + 85° C
- Storage Temp.: -55° C ~ + 125° C
- Humidity: \leq 95%
- Soldering Temp. (2): 300° C
- Case Material: Non-Flammable Material (UL94-V0)
- Mean Time Before Failure: > 1,000,000 hours (Operating Temp. 25° C)

M (U) Single Output Mini Package-1W Series Input Characteristics

Part Number	Nominal Input Voltage	Input Voltage Range	Maximum Input Voltage*
M05XXHL/F1U	5Vdc	4.5~5.5Vdc	7Vdc
M12XXHL/F1U	12Vdc	10.8~13.2Vdc	15Vdc
M24XXHL/F1U	24Vdc	21.6~26.4Vdc	28Vdc

* Voltage above this value may cause permanent damage to the device.

M (U) Single Output Mini Package-1W Series Output Characteristics

Parameter	MIN	TYP	MAX	Units
1W Output Power	0.25		1	W
Line Regulation			± 1.2	%
Efficiency at 100% Load	65	75	85	%
Temperature Coefficient			± 0.03	%/°C
1W Ripple and Noise		75	150	mVp-p
Switching Frequency	80	100	150	kHz

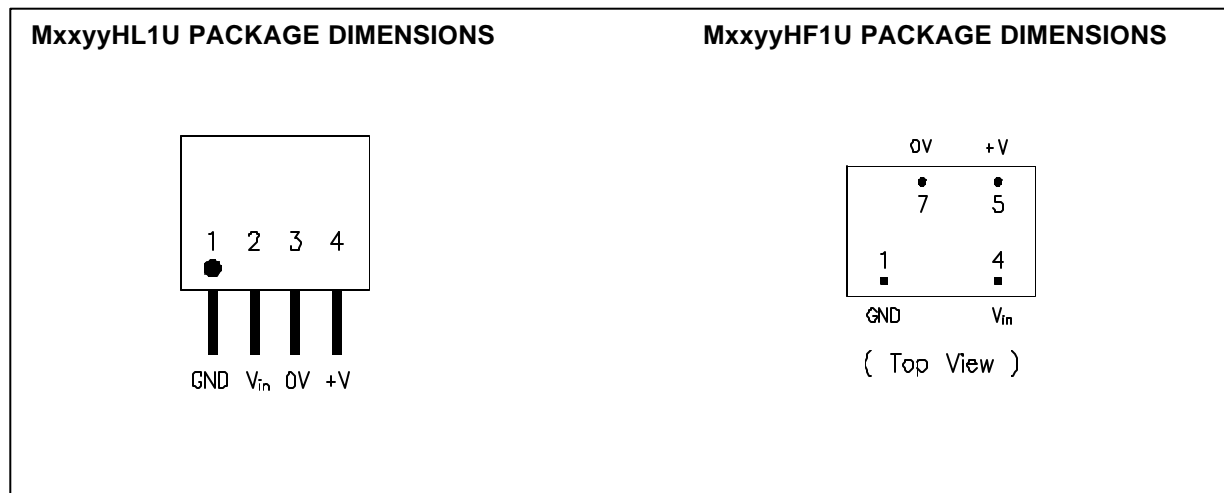
1. All specifications at TA=25°C, 75% of the humidity, Nominal input voltage, full output load unless otherwise specified.
2. Soldering for 10 seconds at 1.5mm away from the edge.

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M (U) Single Output Mini Package-1W Series Part Number List

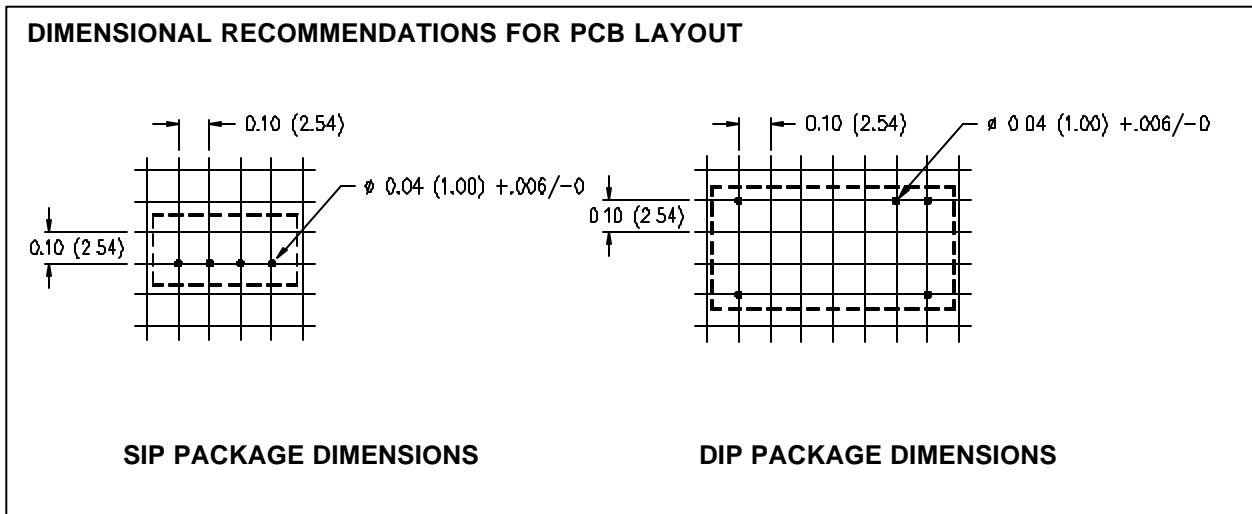
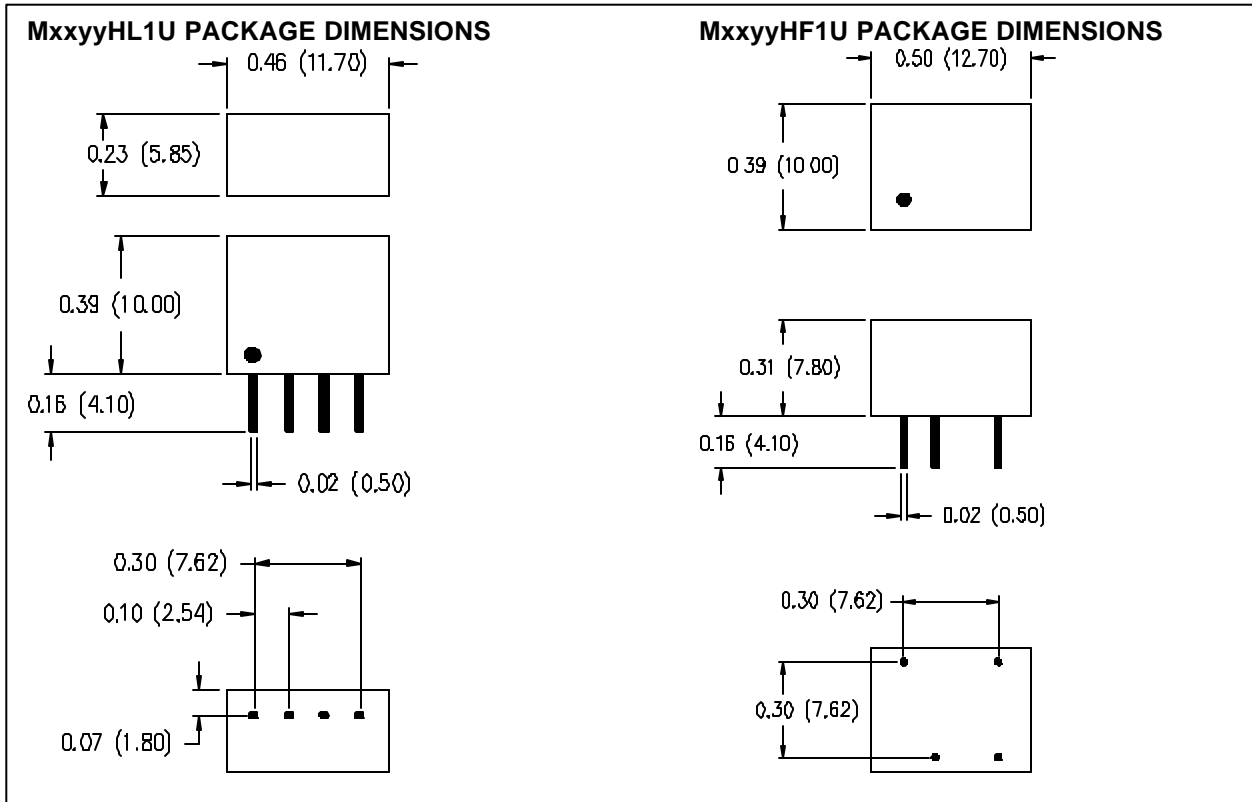
Input	Output	Power	SIP-1W	DIP-1W
5Vdc	5V/200m A 9V/112m A 12V/84m A 15V/67m A	1.00W	M0505HL1U	M0505HF1U
			M0509HL1U	M0509HF1U
			M0512HL1U	M0512HF1U
			M0515HL1U	M0515HF1U
12Vdc		1.00W	M1205HL1U	M1205HF1U
			M1209HL1U	M1209HF1U
			M1212HL1U	M1212HF1U
			M1215HL1U	M1215HF1U
24Vdc	1.00W	M2405HL1U	M2405HF1U	
		M2409HL1U	M2409HF1U	
		M2412HL1U	M2412HF1U	
		M2415HL1U	M2415HF1U	

PIN CONFIGURATION



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Mechanical Dimension: in inches / (mm)



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