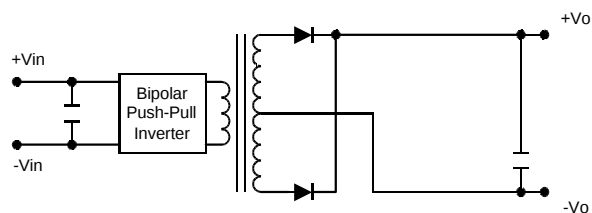
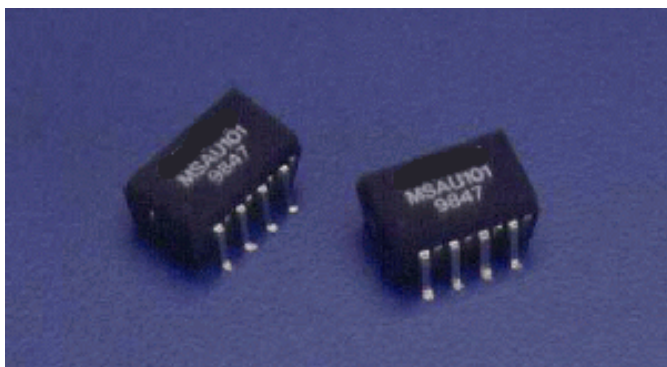
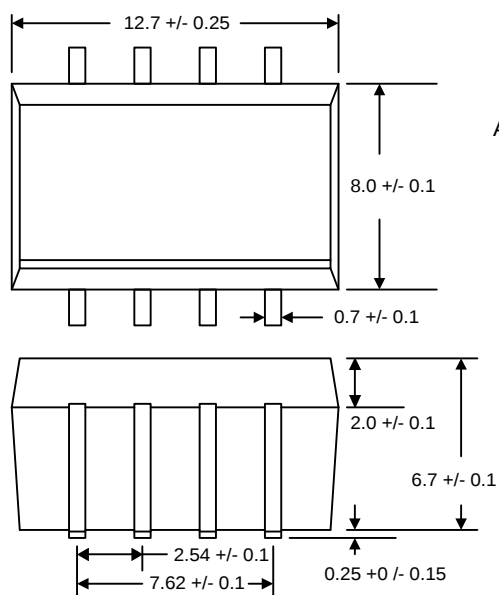


Key Features

- Lead Frame Technology
- CECC00802 Reflow
- Wide Temperature Performance
- I / O Isolation 1000VDC
- Efficiency Up To 82%
- MTBF > 2,000,000 Hours

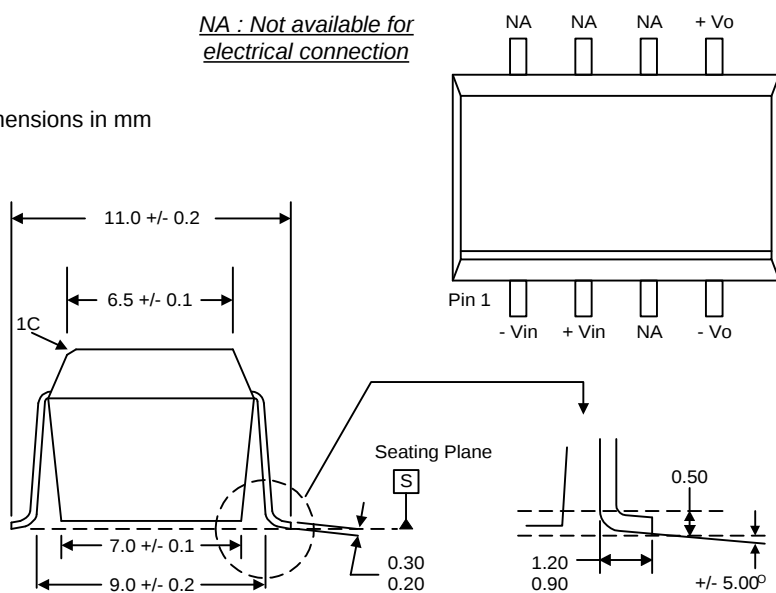


Mechanical Configuration & Pin Connections



All dimensions in mm

NA : Not available for electrical connection



Absolute Maximum Ratings

Exceeding these values can damage the module. These are not continuous operating ratings.

Parameter		Min.	Max.	Unit.
Input Surge Voltage (1000 mS)	5VDC Input Models	-0.7	9	VDC
	12VDC Input Models	-0.7	18	VDC
Internal Power Dissipation		---	450	mW

Environmental Specifications

Parameter	Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		-25	---	+85	°C
Storage Temperature		-40	---	+125	°C
Humidity		---	---	95	%
Cooling	Free-Air Convection				

Model Selection Guide

Model Number	Input voltage VDC	Output Voltage VDC	Output Current mA (Max.)	Output Current mA (Min.)	Input Current Max. Load mA (Typ.)	Input Current No Load mA (Typ.)	Load Regulation % (Max.)	Efficiency % (Typ.)
MSAU101	5 (4.5 ~ 5.5)	5	200	4	250	30	10	80
MSAU102		9	110	2	254		10	78
MSAU103		12	84	1.5	252		8	80
MSAU104		15	67	1	248		7	81
MSAU111	12 (10.8 ~ 13.2)	5	200	4	103	15	8	81
MSAU112		9	110	2	106		8	78
MSAU113		12	84	1.5	104		5	81
MSAU114		15	67	1	102		5	82

Specifications typical at Ta=+25] ,resistive load,nominal input voltage,rated output current unless otherwise noted.

General Specification

Parameter	Conditions	Min.	Typ.	Max.	Unit
Rated Isolation Voltage	60 Seconds	1000	---	---	VDC
Isolation Resistance	500VDC	1000	---	---	MΩ
Isolation Capacitance	100KHz, 1V	---	40	100	pF
Switching Frequency		70	100	140	kHz

Input Specifications

Parameter	Model	Min.	Typ.	Max.	Unit
Input Voltage Range	5V Input Models	4.5	5	5.5	VDC
	12V Input Models	10.8	12	13.2	
Reverse Polarity Input Current	All Models	-----	-----	0.3	A
Input Filter		Internal Capacitor			

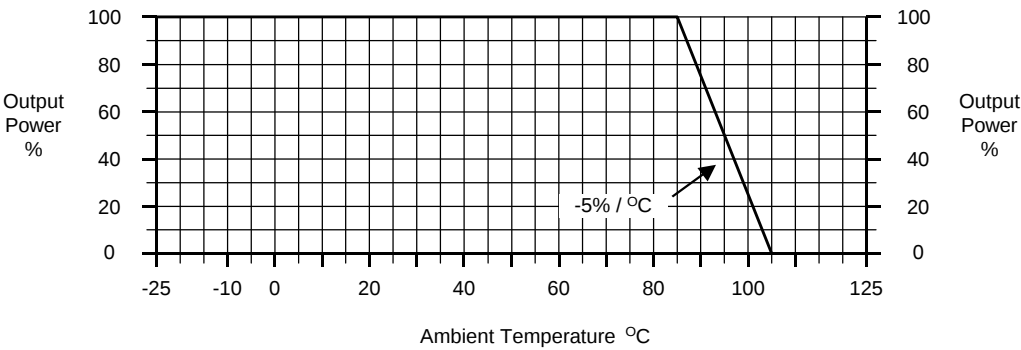
Output Specifications

Parameter	Conditions	Min.	Typ.	Max.	Unit
Output Voltage Accuracy		---	±1.0	±3.0	%
Line Regulation	For Vin Change 1%	---	±1.2	±1.5	%
Load Regulation	Io=20% to 100%	See Model Selection Guide			%
Ripple & Noise (20MHz)		---	60	120	mV P-P
Ripple & Noise (20MHz)	Over Line,Load & Temp.	---	---	150	mV P-P
Ripple & Noise (20MHz)		---	---	5	mV rms.
Over Load		120	---	---	%
Temperature Coefficient		---	±0.01	±0.02	%/°C
Output Short Circuit	0.5 Second Max.				

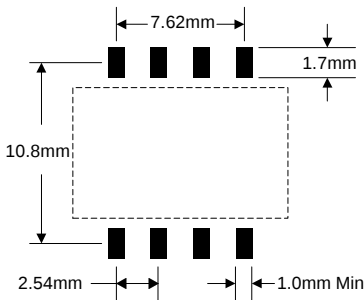
Input Fuse Selection Guide

5V Input Models	12V Input Models
500mA Slow – Blow Type	200mA Slow – Blow Type

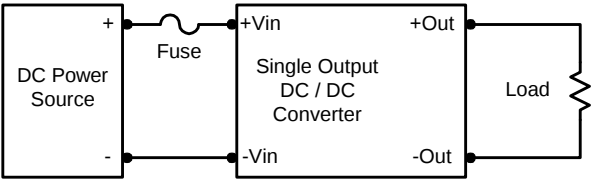
Derating Curve



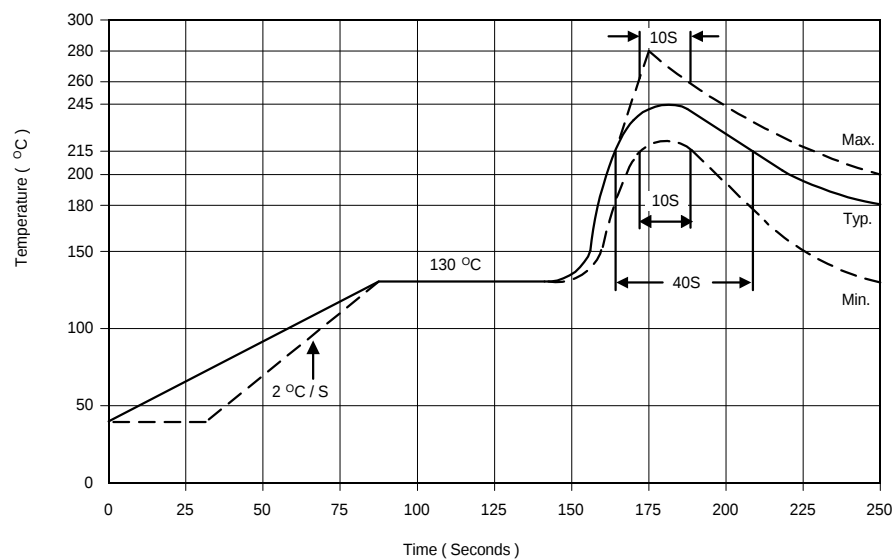
Connecting Pin Patterns



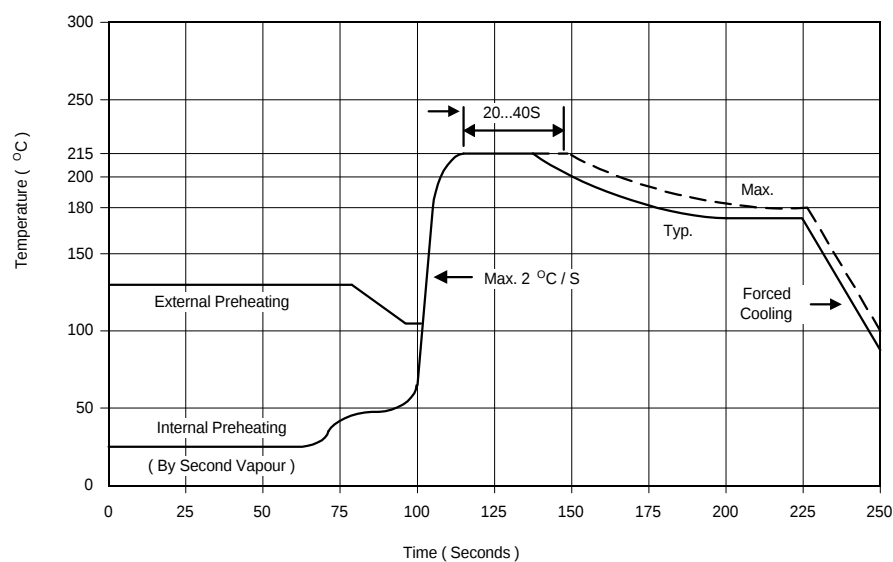
Typical Applications



Infra-Red Soldering



Vapour Phase Soldering with Pre-Heating

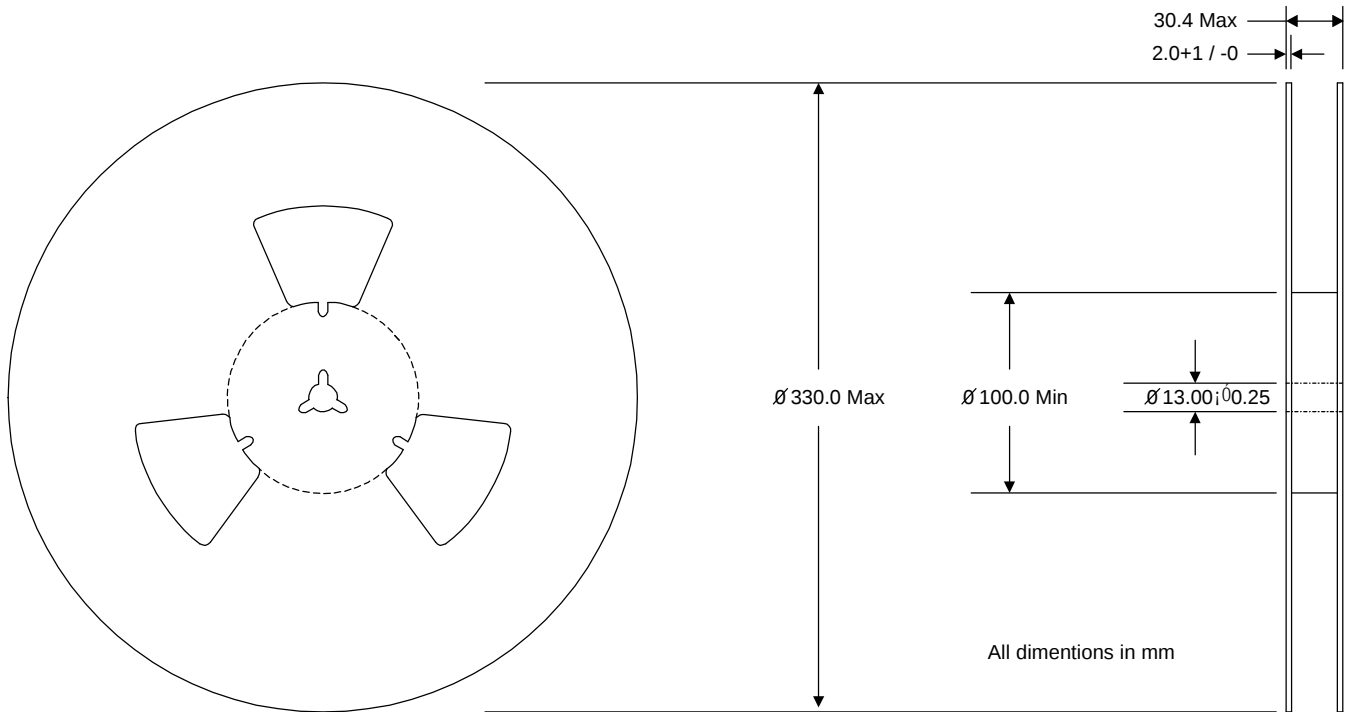


NOTE:

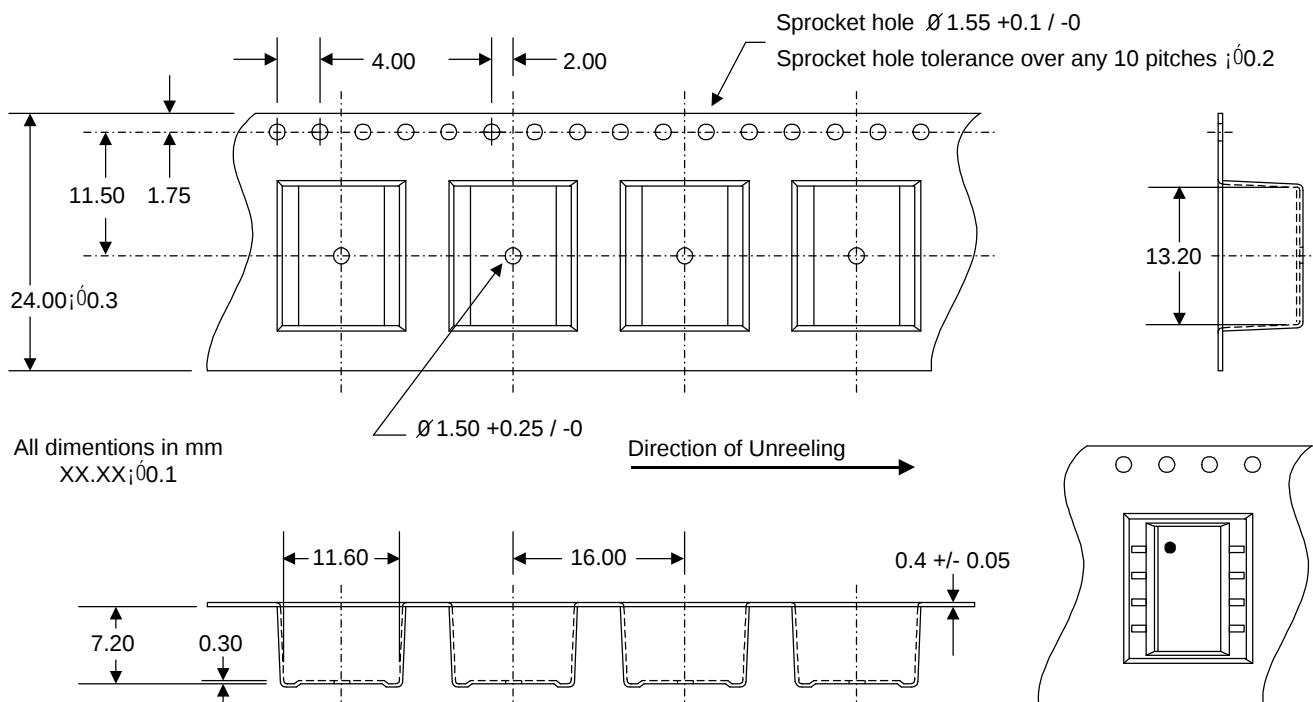
1. Specifications typical at $T_a = +25^\circ\text{C}$, resistive load, nominal input voltage, rated output current unless otherwise noted.
2. Other input and output voltage may be available, Please contact factory.
3. Specifications subject to change without notice.

Packaging Specifications

Reel (500pcs per Reel)

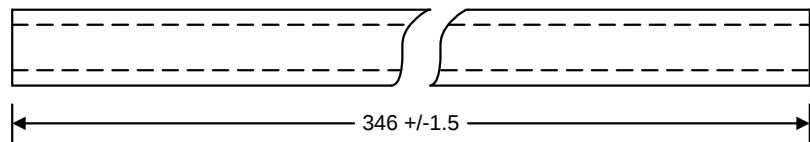
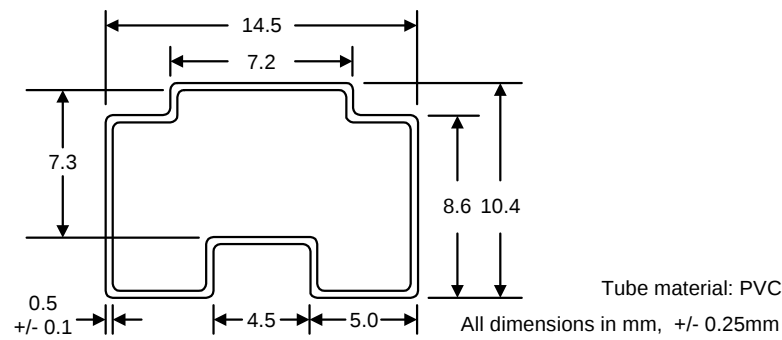


Tape



[查询"MSAU114"供应商](#)

Tube (25pcs per tube)



Packaging Details

Packaging Style	Quantity
Tube	25
Tape and Reel to IEC 286-3 Specifications	500