

Generation description

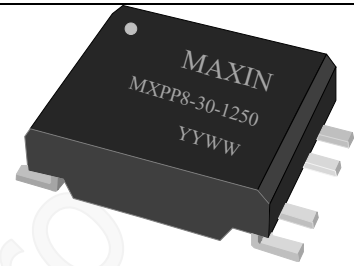
MXPP8-30-1250 is a push-pull transformer which matching push-pull controller MX6501T from Maxin Micro-electronics. Suitable for 5V to 12V applications. It can be widely used in photovoltaic、vehicles、BMS 、communication and other application fields.

General information

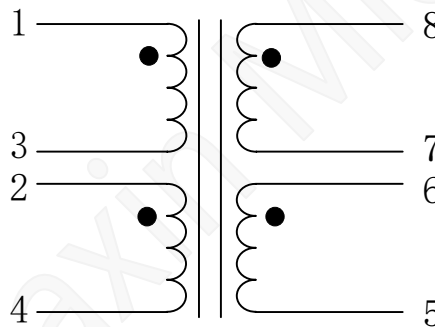
Operating temperature	-40~125°C	Temperature rise included
Storage conditions	-40~80°C	Original package
Storage conditions	-40~80°C	Single part
Moisture sensitive level	MSL3	

Electronical properties

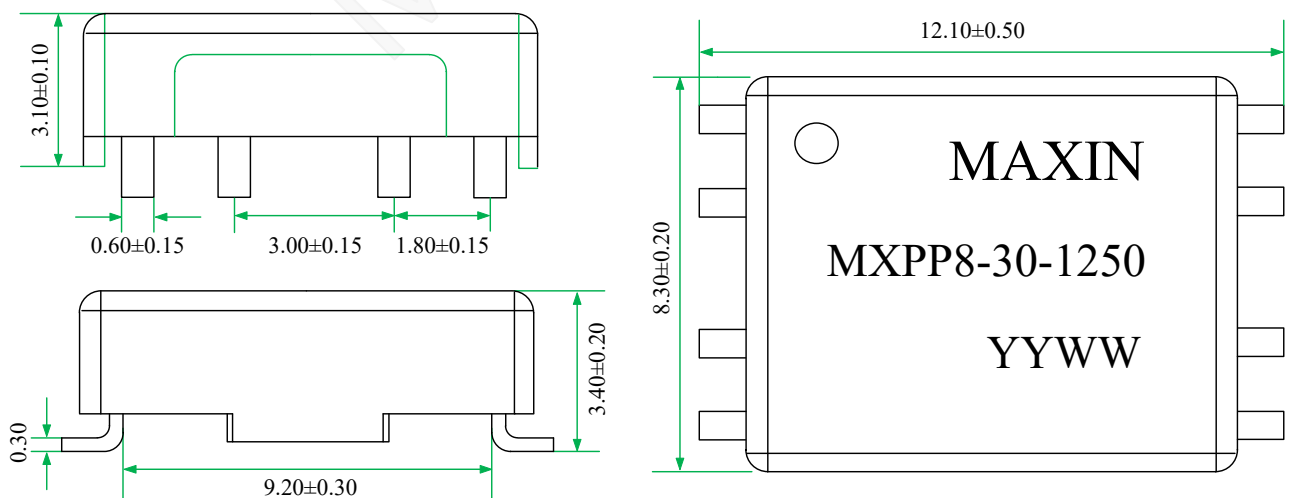
Properties	Test conditions	Value	unit
Inductance	1-4 10kHz 0.1V (2-3 short)	200 Min	μH
Leakage inductance	1-4 10kHz 0.1V (others short)	2 Max	μH
Turns ratio	1-4 : 5-8 (2-3、6-7 short)	1:2.50 Typ	
Coupling capacitance	1-8 (100kHz 0.01V)	11 Typ	pF
Voltage Time	Bipolar waveform	10 Min	Vμs
DC resistance	1-3	90 Max	mΩ
	7-8	180 Max	mΩ
Insulation voltage	1-2-3-4 : 5-6-7-8 DC/1s	3000 Min	V



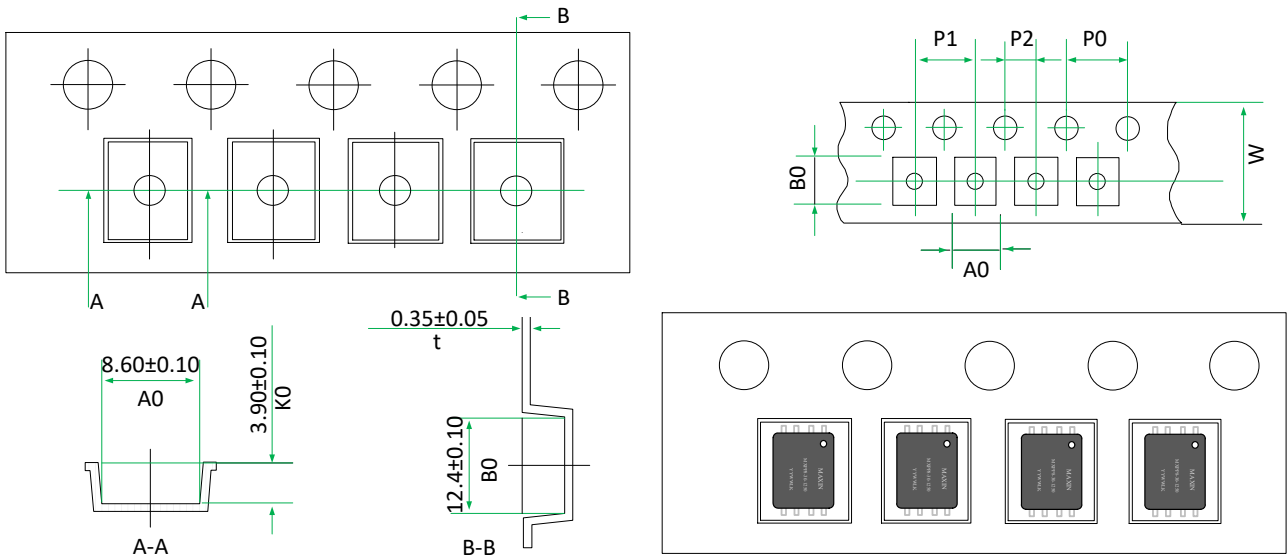
Schematic



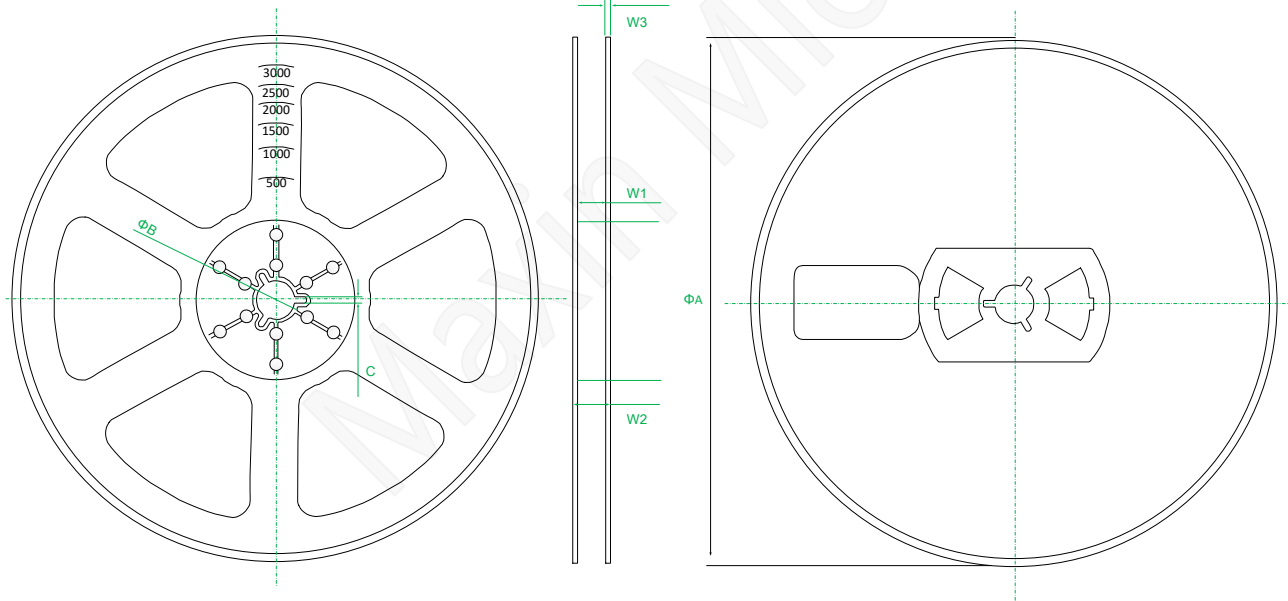
Package Dimensions (unit in mm)



Tape and Reel Information (unit in mm)

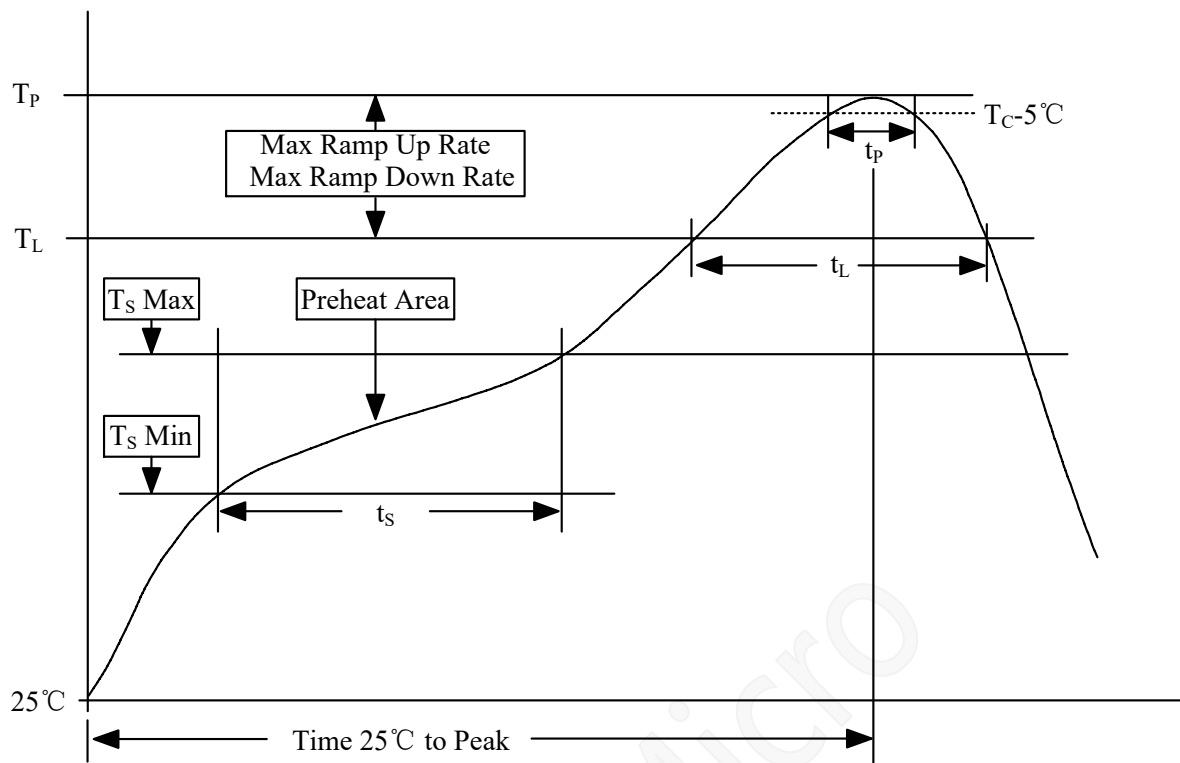


Symbol	W	P0	P1	P2	A0	B0	K0	t
MAX	24.30	4.10	16.10	2.10	8.80	13.50	4.00	0.40
MIN	23.70	3.90	15.90	1.90	8.60	13.30	3.80	0.30



Symbol	ΦA	ΦB	C	W1	W2	W3
MAX	330	13.5	2.50	24.3	28.3	2.3
MIN	320	13.0	1.90	23.7	27.7	1.7

Classification Reflow Profile for SMT components



Classification Reflow Soldering Profile

Profile feature		Value
Preheat temperature Min	T_S min	150°C
Preheat temperature Max	T_S max	200°C
Preheat time t_s from T_S min to T_S max	t_s	60-120 seconds
Ramp up rate (T_L to T_P)		3°C / second max
Liquidous temperature	T_L	217°C
Time t_L maintained above T_L	t_L	60-150 seconds
Peak package body temperature	T_P	$T_P \leq T_C$ see table below
Time within 5°C of actual peak temperature	t_p	20-30 seconds
Ramp down rate (T_P to T_L)		6°C / second max
Time 25°C to peak temperature		8minutes max

Package Classification Reflow Temperature (T_C)

Properties	Volume $\text{mm}^3 < 350$	Volume $\text{mm}^3 350-2000$	Volume $\text{mm}^3 > 2000$
PB-Free assembly Package thickness $< 1.6 \text{ mm}$	260°C	260°C	260°C
PB-Free assembly Package thickness 1.6-2.5 mm	260°C	250°C	245°C
PB-Free assembly Package thickness $> 2.5 \text{ mm}$	250°C	240°C	245°C

Restrictions on Product Use

- ◆ MAXIN micro is continually working to improve the quality and reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing MAXIN products, to comply with the standards of safety in making a safe design for the entire system, and to avoid situations in which a malfunction or failure of such MAXIN products could cause loss of human life, bodily injury or damage to property.
- ◆ In developing your designs, please ensure that MAXIN products are used within specified operating ranges as set forth in the most recent MAXIN products specifications.
- ◆ The information contained herein is subject to change without notice.

Version update record:

V11 The released version

V12 change the location of the pin1 mark

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