

Generation description

MXPP6-3K6250 is a push-pull transformer which matching push-pull controller MX6501T from Maxin Micro-electronics. Suitable for 5V to 12V applications without LDO. It can be widely used in tools photovoltaic vehicles BMS communication and other application fields.

General information

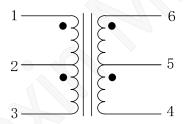
Operating temperature	-40~125°C	Temperature rise included
Storage conditions	-40~80°C	Original package
Storage conditions	-40~80°C	Single part
Moisture sensitive level	MSL3	

Electronical properties

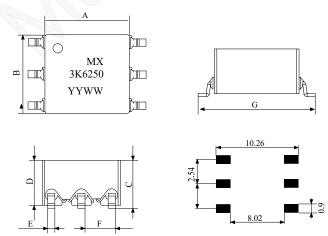
Properties	Test conditions	Value	unit
Inductance	1-3 10kHz 0.1V	475 Min	μН
Leakage inductance	1-3 10kHz 0.1V (others short)	1 Max	μН
Turns ratio	1-3:6-4	1:2.00 Typ	
Coupling capacitance	1-6 (100kHz 0.01V)	17.5 Typ	pF
Voltage Time	Bipolar waveform	11 Min	Vμs
DC resistance	1-3	350 Max	mΩ
	6-4	700 Max	mΩ
Insulation voltage	1-2-3: 4-5-6 DC/1s	3	kV



Schematic



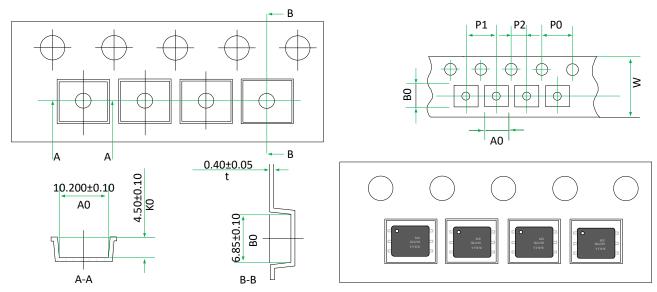
Package Dimensions (unit in mm)



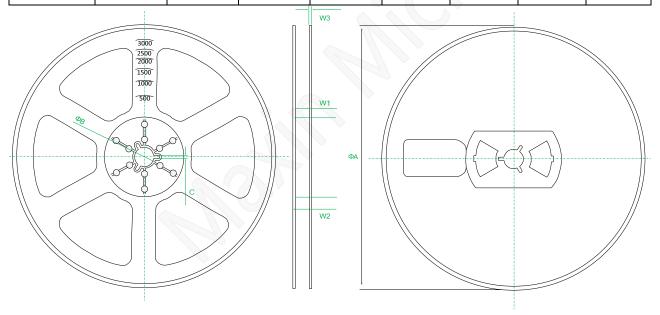
A	В	С	D	E	F	G
7.10 ± 0.2	6.55 ± 0.2	4.2Max	3.75 ± 0.2	0.60	2.54	10.2Max



Tape and Reel Information (unit in mm)



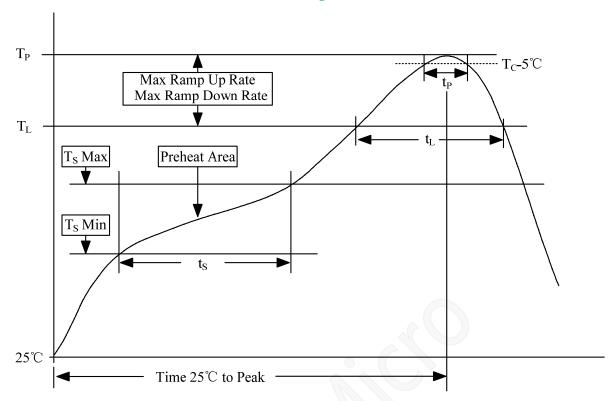
Symbol	W	P0	P1	P2	A0	В0	K0	t
MAX	16.30	4.10	16.10	2.15	10.30	6.95	4.60	0.45
MIN	15.70	3.90	15.90	1.85	10.10	6.75	4.40	0.35



Symbol	ФА	ΦВ	С	W1	W2	W3
MAX	330	13.5	2.50	17.1	20.8	2.3
MIN	320	13.0	1.90	16.5	20.2	1.7



Classification Reflow Profile for SMT components



Classification Reflow Soldering Profile

	Value
	value
Ts min	150°C
Ts max	200°C
ts	60-120 seconds
	3°C / second max
TL	217°C
tL	60-150 seconds
T _P	$T_P \leq T_C$ see table below
t_{P}	20-30 seconds
	6°C / second max
	8minutes max
	Ts max ts TL tL TP

Package Classification Reflow Temperature (T_C)

Properties	Volume mm ³ <350	Volume mm ³ 350-2000	Volume $mm^3 > 2000$
PB-Free assembly Package thickness <1.6 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 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:

V10 The released version

V11 Tape and Reel information