

SPECIFICATION FOR APPROVAL

CUSTOMER

CUSTOMER P/N

SK P/N

MPIF0530 Series

EDITION

A0

SPEC.NO.:

SK-MPIF0530

DATE:

2022/11/15

CUSTOMER APPROVE

MADE BY: Anna

CHECKED BY: Jimmy

APPROVED BY: Eric

Please fax back after confirm of signature.

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HIGH CURRENT SMT POWER INDUCTOR.–MPIF Series

Operating temperature range: -40°C~+125°C (Including self-heating)

Storage environment: temperature -10°C~+40°C , Less than 75% relative and humidity, shelf life for 6 months, beyond 6 months should check the product weldability

1.PART NUMBERING SYSTEM

MPIF	0530	—	XXX	—	X
1	2		3		4

1.SERIES NAME

2.DIMENSIONS

3.INDUCTANCE

4.TOLERANCE CODE: J:±5% K:±10% L:±15% M:±20% P:±25% N:±30%

2.FEATURES:

Low profile and low DCR.

Shielded construction.

Handles high transient current spikes without saturation

Frequency up to 5MHz

Ultra Low buzz noise, due to composite construction

3.APPLICATIONS

PDA/Notebook/Desktop, and server applications

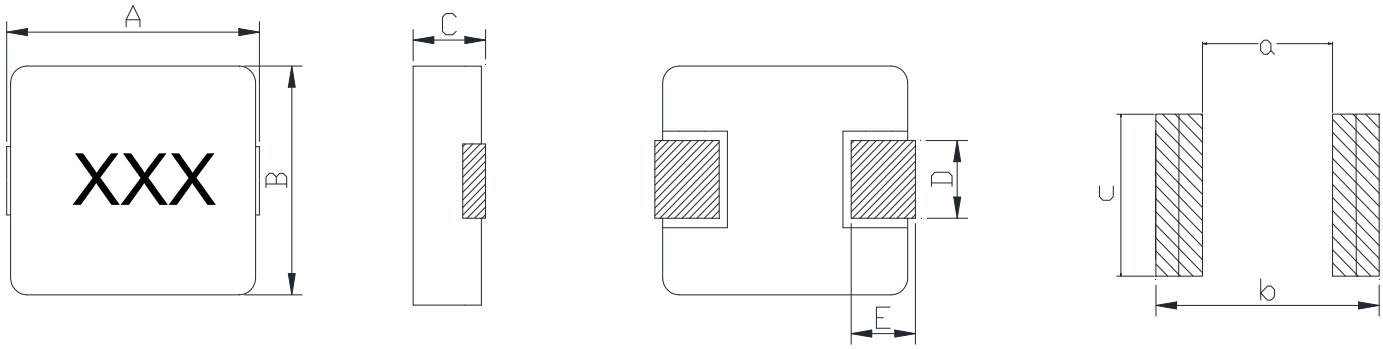
DC/DC converters in distributed power systems

DC/DC converter for Field Programmable Gate Array(FPGA)

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4. Appearance shape (unit : mm)



5. Appearance size(unit : mm) Tolerance:

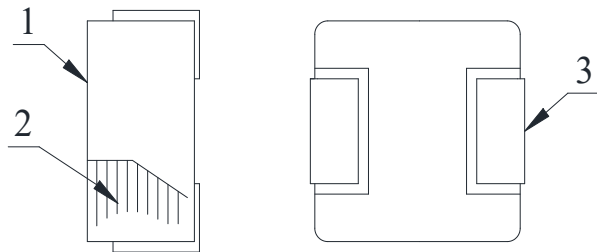
A	B	C	D	E	a	b	c
5.40	5.20	3.00	2.20	1.20	3.00	7.00	2.50
±0.30	±0.20	MAX	±0.50	±0.50	TYP	TYP	TYP

6. Test instruments

L tested by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.

DCR tested by Milli-ohm meter.

7.MATERIAL LIST



No	Part	Material	Temperature class
1	CORE	Alloy powder	/
2	WIRE	Copper wire	200°C
3	BASE	Tinned copper	/

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8. CHARACTERISTICS

P/N	Inductance 电感 @100KHz/1.0V	DC Resistance 直流电阻 MAX	Saturation Current 饱和电流	Heat Rating Current 温升电流	Marking 印字
Units	uH	mΩ	A	A	黑色
Symbol	L	DCR	Isat	Irms	
MPIF0530-R22M-LF	0.22±20%	4.50(3.50)	17.00	14.50	R22
MPIF0530-R47M-LF	0.47±20%	8.50(7.5)	14.0	12.0	R47
MPIF0530-R68M-LF	0.68±20%	12.0(11.0)	14.0	11.0	R68
MPIF0530-1R0M-LF	1.00±20%	15.0(12.0)	11.00	8.50	1R0
MPIF0530-1R2M-LF	1.20±20%	15.0(12.0)	11.0	10.0	1R2
MPIF0530-1R5M-LF	1.50±20%	25.0(20.0)	8.50	8.20	1R5
MPIF0530-2R2M-LF	2.20±20%	35.0(31.0)	7.50	7.00	2R2
MPIF0530-3R3M-LF	3.30±20%	46.0(35.0)	6.00	5.50	3R3
MPIF0530-4R7M-LF	4.70±20%	60.0(50.0)	5.00	4.50	4R7
MPIF0530-6R8M-LF	6.80±20%	110.0(102.0)	4.00	3.50	6R8
MPIF0530-100M-LF	10.00±20%	125.0(110.0)	3.50	3.20	100

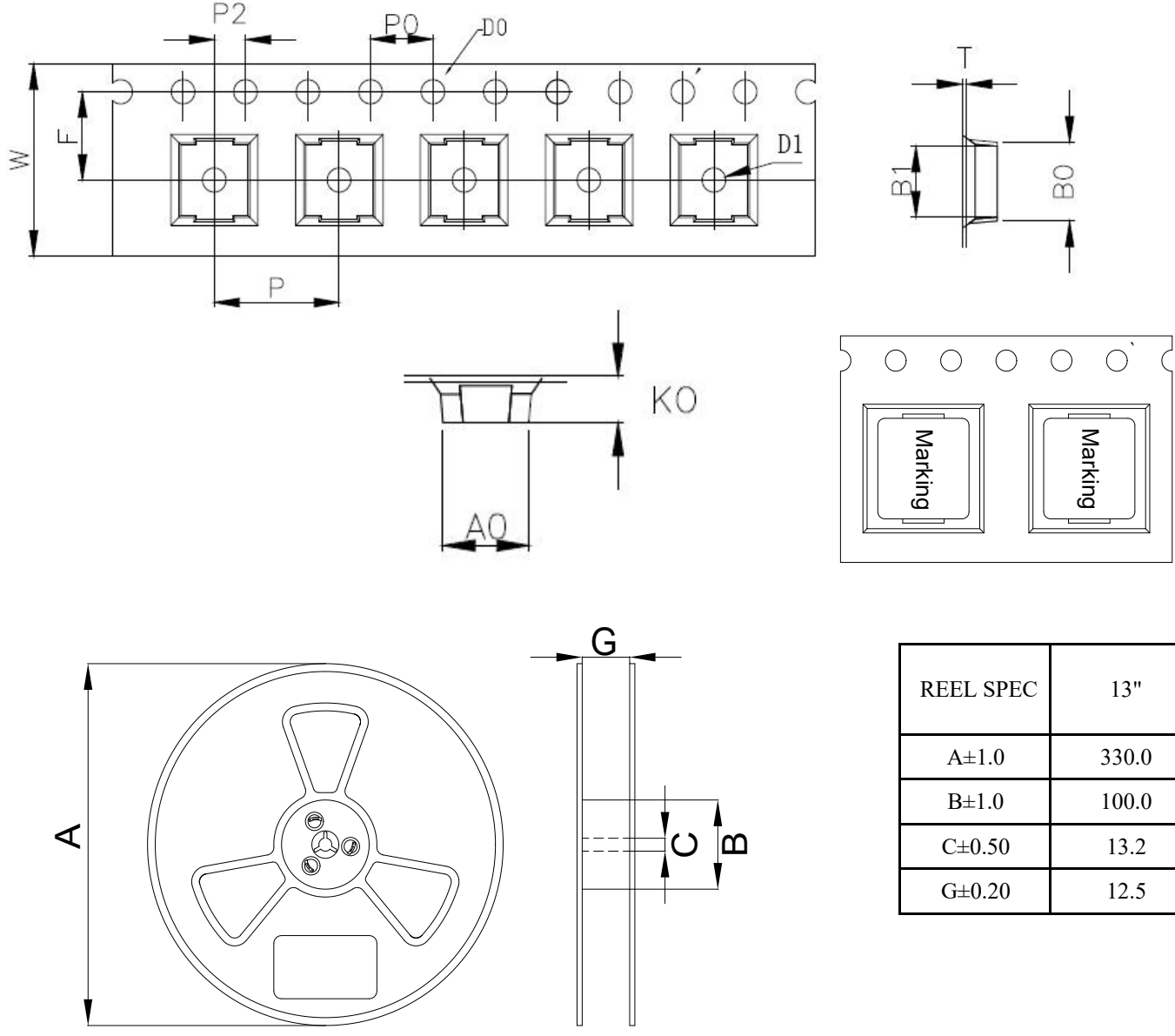
※1: All test data is referenced to 25° C ambient;
 ※2: Rated current: Isat or Irms, whichever is smaller;
 ※3: Isat: DC current at which the inductance drops approximate 30% TYP from its value without current;
 ※4: Irms: DC current that causes the temperature rise (ΔT =40° C) from 25° C ambient.
 ※5: Absolute maximum voltage 30VDC.

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10.DIMENSIONS FOR CARRIER TAPES (unit:mm)

ITEM	W	A0	B0	K0	P	F	E	D0	D1	P0	P2	T
DIM	12.00 ±0.3	5.55 typ	5.90 typ	3.20 typ	8.00 ±0.1	5.50 ±0.1	1.75 ±0.1	1.50 ±0.1	0.00 ±0.0	4.00 ±0.1	2.00 ±0.1	0.35 typ



REEL SPEC	13"
A±1.0	330.0
B±1.0	100.0
C±0.50	13.2
G±0.20	12.5

2.PACKING(mm)

载带宽度 (W)	间距 (P)	卷(PCS) 13inch	2卷/内箱 (PCS)	6内箱/外箱 (PCS)
12	8	2000	8000	24000

备注:

1. 包装袋规格: 375*400mm (REF.) .
2. 内箱规格: 345*341*55mm (REF.) .
3. 外箱规格: 370*360*350mm (REF.) .