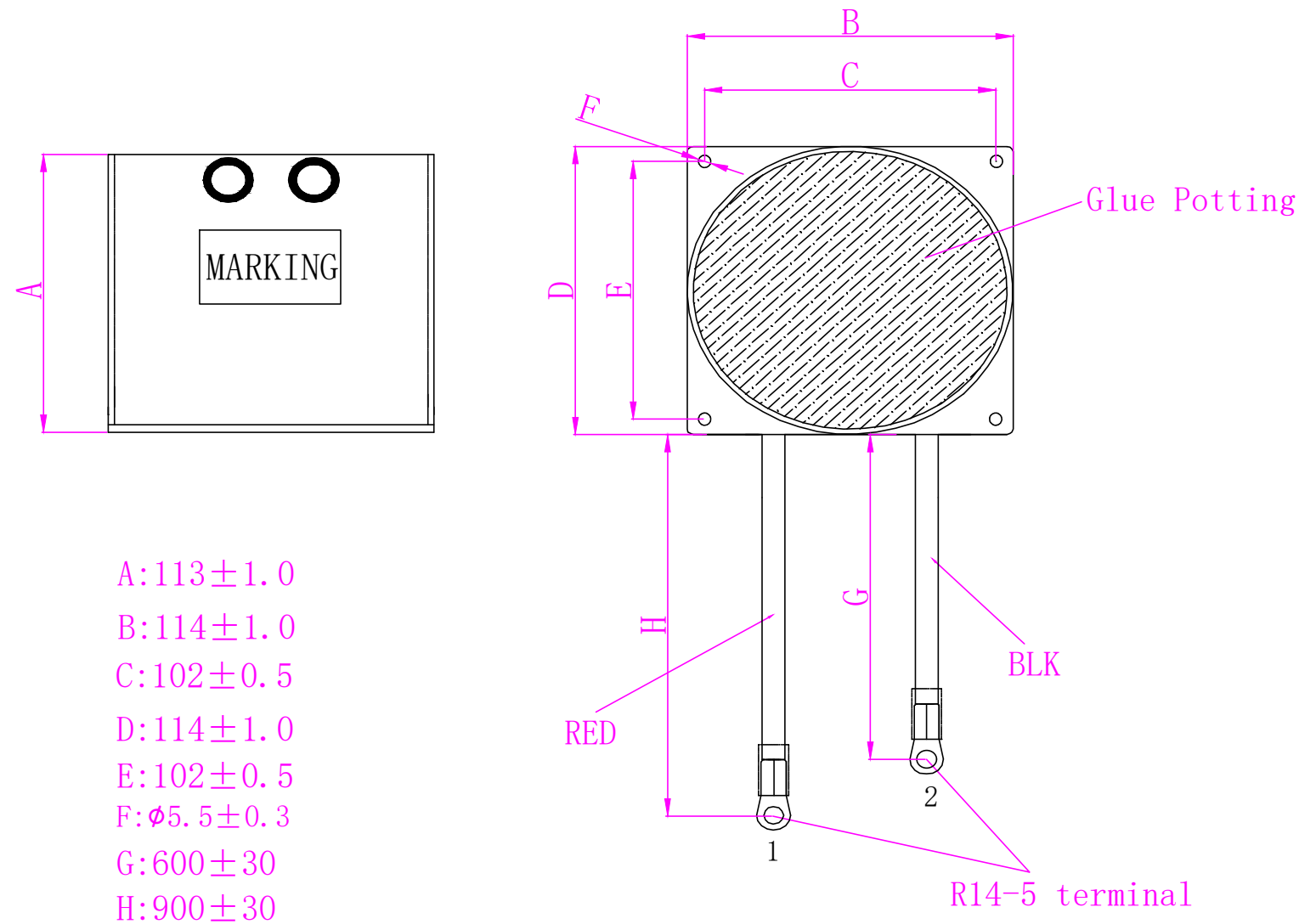


100uH 80A inductor / TL23037R

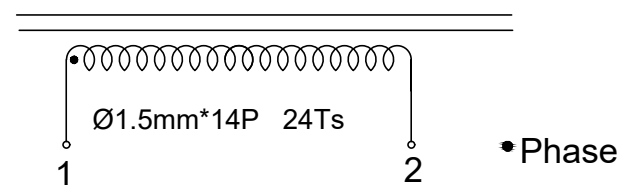


REV	DESCRIPTION	DATE	APPROVED
A	First Release	2024-03-21	Mark

Outline Dimensions(Unit:mm)



Electronical Schematic:



Construction:

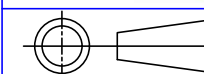
Constructed with UL rated 130°C (Class B) materials.

Electrical Characteristics:

No.	Item	Terminal	Technical Data	Test Condition & Instrument
1	Rated current	/	80A	GwInstek APS-7200/7300 HIOKI 3332 FLUKE 106 @ 25°C
2	Ripple current	/		
3	Ripple Frequency	/	66kHz	
4	Rated Inductance	1-2	246uH±12%	TH2832,66kHz 1V 0Adc @ 25°C
			100uH Ref, 80uH Min	DPG10, 80Adc @ 25°C
5	D.C. Resistance	1-2	5.0 mΩ Ref	TH2516 @ 25°C
6	Layer Insulation	1-2	No abnormality	TH2882A-5, 2200V @ 25°C
7	Hi-Pot	Wdg - Case Wdg - Core	5mA max	TH9320, 1500VAC 50Hz 60S @ 25°C
8	IR	Wdg - Case Wdg - Core	100MΩ min	TH9320, 500VDC, 60S @ 25°C
9	Total loss	about 43W		
10	Approximate weight	about 3.7kg		

List of main material:

No.	Part name	Description	Supplier(or equivalent)	UL Number
1	Core	NPH306075*4Set	POCO	N/A
2	Copper wire	QZY-2/180	NINGBO JINTIAN NEW MATERIAL CO LTD	E227047
3	Cable wire	UL11627 Awg3	3Q WIRE & CABLE CO LTD	E341104
4	Insulation paper	DMD t0.24	SUI ON INSULATING MATERIALS CO LTD	E230926
5	Base	FR-4	KINGBOARD LAMINATES HOLDINGS LTD	E123995
6	Terminal	R22-6	K.S.TERMINALS INC	N/A
7	Tubing	CB-HTF, CB-SRS	CHANGYUAN ELECTRONICS GROUP CO LTD	E180908
8	Varnish	T-4260(a)	SUI ON INSULATING MATERIALS CO LTD	E228349
9	Potting glue	JD-605	DONGGUAN CITY JIA DI NEW MATERIALS CO LTD	E485392
10	Aluminum case	ADC12	/	N/A



Tolerances unless otherwise specified:
(.X)±0.50 (.XX±0.25)

100uH 80A inductor

Powel P/N

TL23037R

Customer P/N