



Shenzhen Aozhixin electronic technology electronic Co., LTD

SPECIFICATION FOR FLASHLENS

★Customer:	
★Customer item:	
★Product model:	MPP
★Description:	MPP single coil assembly
★Material material :	MnZn
★Samples Q' ty:	3PCS
★Issue Date:	2024.10.24

Revision resume	Version	Made/revised date	Revise Contents
	V2.4	2024.10.24	New order

★CUSTOMER CONFIRM	
	Date of Receipt:
	Received by:

	★The company confirmation column (supplier)			
	quality	Research and Development Department		
	QE Audit CheckedBy	Approved	Checked By	Prepared By
				Cao Hengbing
Address:				
TEL:				

Quality policy, enterprising innovation, excellence, the pursuit of excellence.
Form Number: Edition

SPECIFICATION FOR FLASHLENS

Customer Admit	Customer	
	Cust P/N	
	Name	MPP single coil assembly
	Part No	40.5*20.5*0.08*80P*11TS, G42.5*19.5*1.0mm, double slot, lead 15MM
	Date	2024/10/24
	Version	V2.4
	Design By	Cao Hengbing
	Check. By	
	Approve By	

Shenzhen Aozhixin Electronic Technology Electronics Co., LTD

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二、Request For New SPEC.

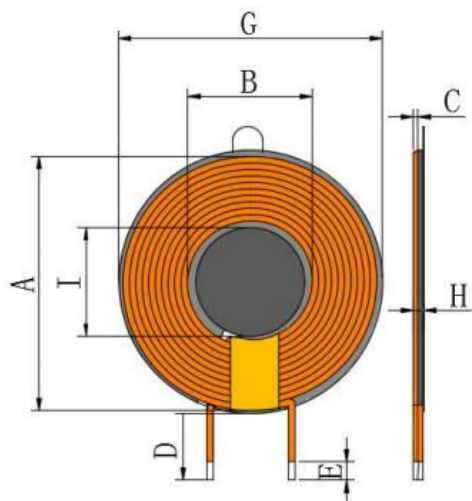
第 3 页 共 7 页

三、Remark:

- 3.1 Above product comply to li yin Environmental material system requirement.
- 3.2 In Event Of No Sign Back, We Will Under Take P.O. As Acceptance To Sample Approval!

四、Product Specification

4.1 (Unit: mm)



A	40.5 ± 0.8
B	20.5 ± 0.5
C	1.06 ± 0.05
D	15 ± 2.0
E	3 ± 2.0
G	42.5 ± 0.6
I	19.5 ± 0.5
H	2.35 ± 0.15

Operating Frequency: 110-205KHz

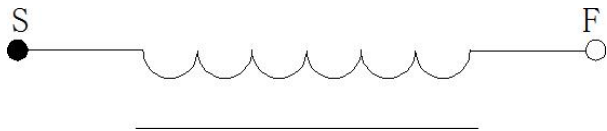
Antenna gain: 0dBi

Note: We statement that All measurements were performed radiated and therefore additional antenna gain documentation is not required.

What to watch for:

1. Litz wire single coil
2. Wrap 4-5mm(wide) polyimide tape 1.5Ts around the outlet position
3. The coil body should not be loose, and there should be no gap greater than 1/3 wire diameter
4. The coil should be attached to the center of the magnetic disc
5. The lead is covered with black heat shrink tube 2.0*1.0*115mm, aligned with the end of the magnetic disc
6. The small middle diskette should be flush with the surface of the coil
7. Magnetic sheet surface luster, uniform color, the surface must not affect the film or adhesive dust or magnetic powder
8. Double-sided tape should be affixed to the back of the magnetic disc

4.2 SCHEMATIC DIAGRAM:



4.3 Winding Specification:

NO.	TERMINAL		WIRE	Turns	Winding Direction
1	S	F	Litz 0.08*80P	11Ts	CCW

4.4 ELECTRICAL CHARACTERISTICS:

TEMPERATURE:25±10° C, RELATIVE HUMIDITY:65±20%

NO.	ITEM	TERMINAL	SPECIFICATION	TEST FREQUENCY	TESTEQUIPMENTS
1	LS	S-F	8.2uH±0. 4uH	100KHz/1.0V	TH2830
2	Q	S-F	100typ	100KHz/1.0V	TH2830
3	DCR	S-F	49mΩ ±10%		ZX5512B

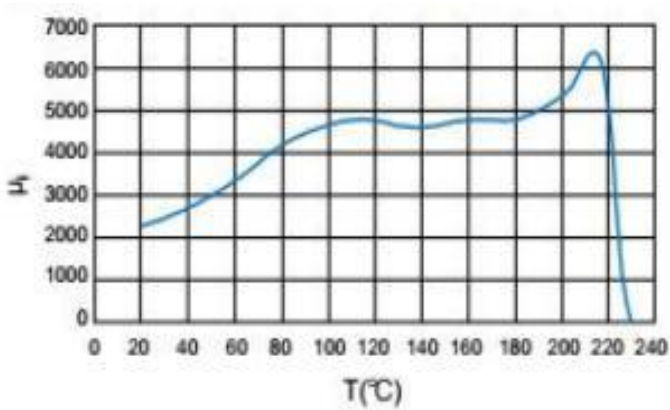
五： Material Characteristics: (attached)

5.1 MAIN PARAMETERS

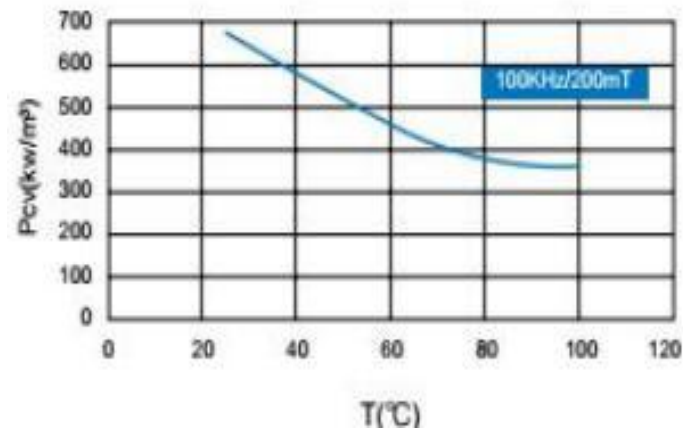
NO	Parameters	Code Name	Units	Test conditions	BP40
1	Initial penrmeability	Ui	\	25℃	2300±25%
2	Saturation flux density	Bs	mT	H=1194A/m 25℃	510
				100℃	390
3	Pcv Power Loss	Pc	Kw/m³	25℃,100kHz,200mT	650
				100℃,100kHz,200mT	450
4	Curie temperature	Tc	℃		≥215
5	Density	d	Kg/m³		4.8×10³

5.2 Material Characteristics Curve

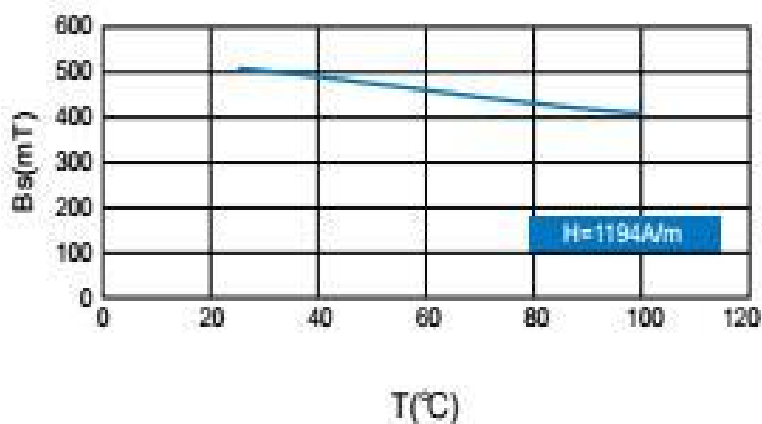
μ i—T curve



Pcv—T curve



Bs—T curve



5.3 Appearance Size :AQL= 1.0/ Electrical performance (L) :AQL=0.65

- ① Cleaning: the surface of the magnetic disc luster, uniform color, smooth, no obvious loose phenomenon. The surface of the magnetic disc shall not have dust or magnetic powder that affects the film or glue Present.
- ② magnetic disc block, damage: the allowable standard for each damage is length $\leq 5\text{mm}$, width $\leq 1.0\text{mm}$, depth $\leq 0.5\text{mm}$, and the interval between each two damage places is 1mm
The determination of the inside is a damage, and each product is allowed to accept 3 damages within this standard.
- ③ Crack: The magnetic core is only allowed to exist two long less than 5mm, width less than 0.5mm of the non-obvious crack exists, is not allowed to affect the magnetic core electromagnetic performance and Mechanical strength cracks and lamination.
- ④ Yin and Yang surface: the size is not inspected within the tolerance range.
- ⑤ Crystal spot, bright spot: grinding surface crystallization $\leq 2\text{m}$, the number of single sides $< 3\text{m}^2$
- ⑥ Surface flatness: the surface allows concave and convex depth $\leq 0.08\text{mm}$ (in principle, it is not allowed to have obvious line marks).
- ⑦ Mechanical strength: $\geq 1\text{kg}$ (Instrument: DSZ-500N pressure gauge)