



CH SHENYANG ELECTRONICS

APPROVAL APPLICATION

厂商编码 Number in:	OA-DM020-H	
客户编码 Item Name:	/	
产品名称 Type:	DM Inductance	
规格型号 Client:	50A 18uH ±15% 10K	
编制日期 Date:	2024.09.10	REV: A
修改日期 Date:		REV:

APPROVED FOR CUSTOMER 客户认可:			
ED 工程	TD 质量	R&D 研发	APPROVE 批准
PRODUCERS CONFIRMED 制造商认可:			
ED 工程	TD 质量	R&D 研发	APPROVE 批准

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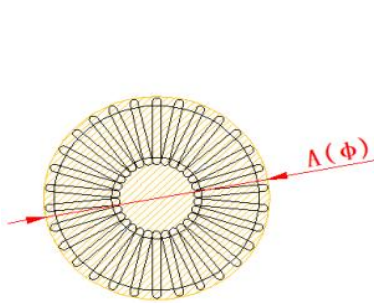
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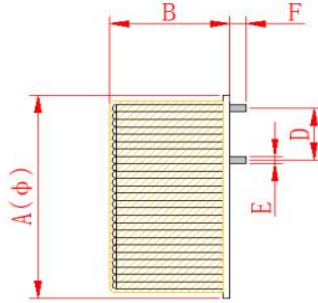
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		REV:	A
product name/Type:		CM Inductance / 50A 18uH ±15% 10K	Date: 2024.09.10
HISTORY OF CHANGED 修改记录			
REV 版本	DESCRIPTION OF CHANGES 修改内容	CHANGE REASON 原因	DATE 日期
A	New issue	/	2024.09.10



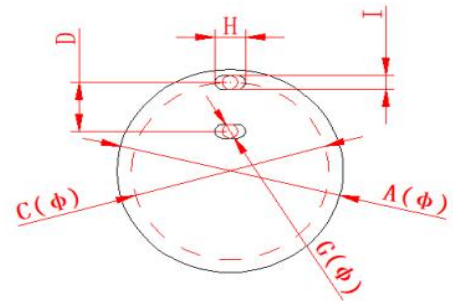
Material size chart (unit:mm)/Construction



Front view



Side view



Bottom view

NO.	Model (uH)	A (max)	B (max)	C (max)	D (±0.5)	E (±0.5)	F (±0.5)	G (±0.3)	H (±0.3)	I (±0.2)	J (±0.2)	Weight (g)
0A-DM02 0-H	50A 18uH $\pm 15\%$ 10K	44	28	/	14	/	3.5	/	5.6	2	/	85

“A” Significant size; Mark: OA-DM020-H CHSHENYANG Y/W

注意事项:

Process requirements

- 1, Product Appearance 100% Inspection Test;
- 2, Electrical Performance 100% Inspection Test;
- 3, RoHS、UL94 (in line with EU standards) ;
- 4, Reliable Performance Reference AEC-Q200 Standard Test;
- 5, Storage temperature and humidity: $<35^{\circ}\text{C}$; 35-65% RH
- 6, working temperature range : -40°C ~ $+125^{\circ}\text{C}$;



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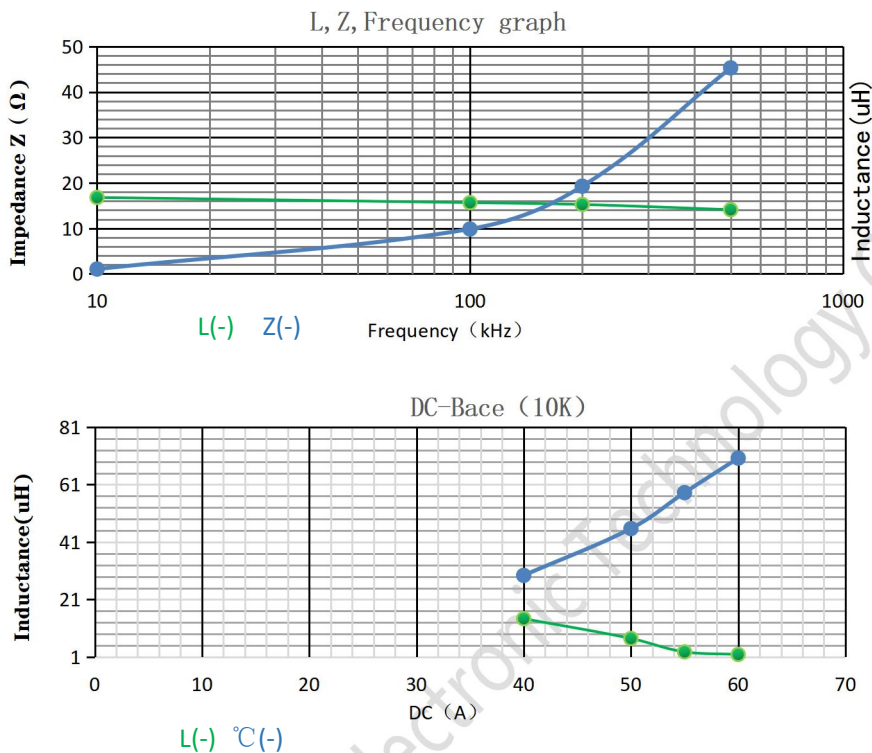
2024.09.10

Electrical characteristic

NO	Non-woven en 挡墙	Wire(电流)	Turns (匝比)	START 起线	FINISH 尾线	Tape 胶 带	Case 套管		Note
							S	F	
N1	/	50A	1: 1	1	2	/	/	/	

Project	unit	Test Conditions	MIN	MAX	test instrument	Note
L 1-2	uH	10KHz,0.3V, Ser	15.3	20.7	GKT3259	●
			18±15%			
Fight Voltage（AC*1.2, 3S, Can replace）	mA	PRI/SEC-Core,AC1500V,1min,0.5mA ,50/60Hz	No abnormality		19053	○
DCR 1-2	m Ω	25℃	2（REF）		GKT3259	○
Insulation resistance	G Ω	PRI-SEC DC1000V,10s,1G Ω	No abnormality		19053	○
	G Ω	PRI/SEC-Core DC1000V,10s,1G Ω	No abnormality		19053	○

“●”代表关键特性 Important performance, “○”代表一般特性 General performance





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Reliability Test

序号	应力方式	检测方法	数量 Size	Number of Lots 批数	接受标准 Accept Criteria
1	Electrical performance 前后电气性能	AEC-Q200/规格书要求 (Specification)	all	all	0 Fails
2	High Temperature Exposure (Storage) 高温存储	MIL-STD-202 Method 108 (125°C, 1000H)	77	1	0 Fails
3	Temperature Cycling 温度循环	JESD22 Method JA- 104 (-40~125°C, Every 30minutes)	77	1	0 Fails
4	Biased Humidity 偏高湿度	MIL-STD-202 Method 103 (85°C 85%RH, 1000H)	77	1	0 Fails
5	High Temperature Operation Life Test 高温运行寿命	MIL-PRF-27 (125°C, 1000H, Rating Current)	77	1	0 Fails
6	External Visual 外观	MIL-STD-883 Method 2009 (Specification)	all	all	0 Fails
7	Physical Dimension 结构尺寸	JESD22 Method JB- 100 (Specification)	30	1	0 Fails
8	Terminal Strength (Leaded) 端子强度 (引脚)	MIL-STD-202 Method 211 (17.7N, 60s)	30	1	0 Fails
9	Resistance to Solvents 溶剂抵抗	MIL-STD-202 Method 215 (The solvent, Brush 2-3 times)	5	1	0 Fails
10	Mechanical Shock 机械冲击	MIL-STD-202 Method 213 (100G, 6ms, 3 axes and 6 directions, 3 times)	30	1	0 Fails
11	Resistance to Soldering Heat 耐热焊接	MIL-STD-202 Method 210 (260°C, 10S, 0.5inch)	all	all	0 Fails
12	Vibration 震动	MIL-STD-202 Method 204 (10HZ-2000HZ-10HZ, 5G, 4H, 3 Directions.)	30	1	0 Fails
13	ESD 静电放电	AEC-Q200-002 or ISO/DIS (6KV Air discharge)	15	1	0 Fails
14	Solderability 可焊性	J-STD-002 (8H*155°C, 235°C, 5s, >95%)	45	1	0 Fails
15	Flammability 可燃性	UL-94 (UL report)	6	1	V-1 or V-0
16	Board Flex 板弯曲	AEC-Q200-005 ((D) x=2 mm, 60+5S)	30	1	0 Fails