



ISO9001 & ISO14001 & TS16949 CHILISIN ELECTRONICS CORP.

Lead-Free & RoHs Compliance!!

SPECIFICATION FOR APPROVAL

CUSTOMER : _____

CUSTOMER P/N : _____

OUR DWG No : _____

QUANTITY : X Pcs. DATE : 2022/7/26

ITEM : SMT-EFD20H-7R0-N

SPECIFICATION ACCEPTED BY:		
COMPONENT ENGINEER		
ELECTRICAL ENGINEER		
MECHANICAL ENGINEER		
APPROVED		
REJECTED		

DRAWN BY	Jiusheng	CHECKED BY	Fangkuan	APPROVED BY	Wan.one	QRA BY	
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ISO9001 & ISO14001 & TS16949 CHILISIN ELECTRONICS CORP.

SPECIFICATION FOR APPROVAL

CUSTOMER	0	CLS DWG. NO.	0
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CUSTOMER'S PART NO/DWG NO.	DESCRIPTION	DATE
	SMT-EFD20H-7R0-N	2022/7/26

(1)MECHANICAL ASSEMBLY		<p>NOTE:</p> <p>1.骨架为EFD20卧式(4+4), 骨架空PIN6,7. 磁芯为PC47材质.</p> <p>2.骨架PIN1-4朝外, 轴芯顺时针转动绕线, N2绕组密绕两层加层间胶带, N4绕组进线加套管.</p> <p>3.磁芯结合面需点硬胶固定.</p> <p>4.磁芯开单GAP调节电感量约0.2mmREF, GAP磁芯装于PIN1-4侧,用6.5mmREF 胶带包3TS固定.</p> <p>5.产品需真空含浸,烘干.</p> <p>6.标签贴于PIN1-4,字朝PIN脚.</p>	A	21.5MAX	m/m
			B	22.0MAX	m/m
			C	12.0MAX	m/m
			D	3.5±0.5	m/m
			E	5.0±0.5	m/m
			F	17.5±0.5	m/m
			G	∅0.60±0.1	m/m

1 ST COLOR	2 ND COLOR	3 RD COLOR	4 TH COLOR
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(2)ELECTRICAL REQUIREMENTS					(3)SCHEMATIC				
INDUCTANCE	L(4-3)	7.4±10%	uH	TEST FREQUENCY	220KHZ 0.25V				
LK	L(4-3) short the other pins	180MAX	uH	TEST FREQUENCY	220KHZ 0.25V				
HI-POT	PRI-SEC	1mA/3Sec		3.0KV/AC/50HZ					
	SEC-CORE	1mA/3Sec		3.0KV/AC/50HZ					
	PIN1-PIN3	1mA/2Sec		1.2KV/AC/50HZ					
DCR	DCR(4-3)	19MAX	mΩ	TEST CONDITION					
DCR	DCR(2-1)	69MAX	mΩ	TEST CONDITION					
DCR	DCR(5-8)	127MAX	mΩ	TEST CONDITION					
RATED CURRENT									

(4)TEST INSTRUMENTS									
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<p>*CH502BC (RDC)</p> <p>*CH3250 (L)</p> <p>*LK2672X (HI-POT)</p>	NO	TERMINAL S F		MAGNETIC WIRE	TURNS	INSULATI ON TAPE	MARGIN TAPE TOP PIN	TUBE 套管 S F		REMARK
	N1	4	3	2UEW ∅0.20*1L	7	2TS	PIN5-8	/	/	
	N2	5	8	2UEW ∅0.20*2L	20	2TS	PIN1-4	/	/	
	N3	4	3	2UEW ∅0.20*1L	7	2TS	PIN5-8	/	/	
	N4	2	1	2UEW ∅0.20*1L	9	2TS	PIN5-8	V	/	

<p>NOTE:</p> <p>建议EFD20变压器PCB孔径1.3mm 或以上</p>	BOBBIN	EFD20卧式(4+4)		APPROVED BY
	CORE	PC47 EFD20		CHECKED BY
	WIRE			DRAWN BY
	WINDING			Jiusheng
	VERSION	NO.01		



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TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER				0			CLS DWG. NO.		
							0		
CUSTOMER'S PART NO./DWG.NO.				DESCRIPTION			DATE		
				SMT-EFD20H-7R0-N					
		QUANTITY	3		PCS				
MEAS. ITEM	L(4-3) uH								
SPEC	CUSTOMER SUGGEST	7.4±10%							
	TEST FREQ.	220KHZ 0.25V							
1	7.30								
2	7.30								
3	7.40								
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
	\bar{X}	7.33							
	R	0.10							
CUSTOMER SAMPLE									
TECT CONDITION: TEMP. 25 °C					APPROVED BY				
					CHECKED BY				
					DRAWN BY				
					Jiusheng				



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TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER							0			CLS DWG. NO.		0	
CUSTOMER'S PART NO./DWG.NO.				DESCRIPTION				DATE					
				SMT-EFD20H-7R0-N				QUANTITY		3		PCS	
MEAS. ITEM	A	B	C	D	E	F	G						
	m/m	m/m	m/m	m/m	m/m	m/m	m/m						
SPEC	CUSTOMER SUGGEST	21.5MAX	22.0MAX	12.0MAX	3.5±0.5	5.0±0.5	17.5±0.5	φ0.60±0.1					
TEST	FREQ.												
1		20.32	20.54	11.40	3.44	4.99	17.61	0.60					
2		20.30	20.62	11.44	3.46	5.02	17.54	0.60					
3		20.34	20.58	11.42	3.45	5.03	17.62	0.60					
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
X	SOLDER	20.58	11.42	3.45	5.01	17.59	0.60						
R		0.04	0.08	0.04	0.02	0.04	0.08	0.00					
CUSTOMER SAMPLE													
TEST CONDITION: TEMP. 25 °C									APPROVED BY				
									CHECKED BY				
									DRAWN BY Jiusheng				



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TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER	0	CLS DWG. NO.	0
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CUSTOMER'S PART NO./DWG.NO.	DESCRIPTION SMT-EFD20H-7R0-N	DATE	
		QUANTITY	3 PCS

5. MATERIAL LIST :

ITEM	PART	DESCRIPTION	TEMP	SUPPLIERS	UL NO.
1	WIRE	2UEW Y		JUNG SHING OR EQUIV	E174837
2	CORE	PC47 EFD20		MAXMAGTECH OR EQUIV	
3	BOBBIN	EFD20 T375HF		CHANGCHUN SUTH-EAST OR EQUIV	E59481
4	VARNISH	BC-346A		JOHN C.DOLPH OR EQUIV	E317427
5	SOLDER	SnCu0.3		THOUSAND ISLAND OR EQUIV	
7	INSULATION TAPE	CT-280		YAHUA OR EQUIV	E165111
8	TUBE	TFS		GREAT HOLDING	E156256
9	EPOXY	H907-HF		HUACHUANG	E304477

TECT CONDITION:	TEMP.	25 °C	R.H.	65%		APPROVED BY
						CHECKED BY
						DRAWN BY Jiusheng