

Customer 客户:	
Part No. (客户料号):	

承 认 书

SPECIFICATION FOR APPROLVAL

品名: ____贴片功率电感器

规格: ___GCDS125 47uH ±20%

料号: _____GCDS125MT470

日期: _____2019.7.23

版本号: ______V1.0_____

Produced by (QC)	Checked (QC)	Approved by (QC)	Prepared by (Sales)	Accepted by (Customer)

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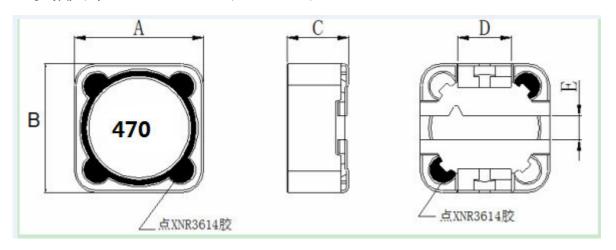


更改记录

版本	更改日期	更改内容	更改页面	更改者	确认者
1.0	2019. 7. 23	发行			



1. 机械尺寸 Mechanical: (UNIT: mm)



A: 12.3MAX B: 12.3MAX C:6.0MAX D: 5.0 REF E:2.0 REF

2. 检查条件

	检查项目	规格	取样标准	检查方法
1.	L(µH)	47μH±20% at 1KHz/0.3V	GB/T2828.1-2003	CH1062
2.	RDC	120mΩ Max	"	502BC
3.	IDC	3A (inductance drop;35% at last)	"	CH1310+1062A

3. 原材料

NO.	名称	规格	单位	供应商	备注
1	DR CORE	TN40H DRR-10×5.2-5.0 PAI		天通	或同等材料
2	RI CORE	TN40H RI-12.1-5.0-10.7 SWE-B		天通	或同等材料
3	BASE	C-1200F P2		联诚	或同等材料
4	WIRE	P180		益利素勒	
5	TAPE				
6	TUBE				
7	EPOXY	XNR3642 胶(贴 BASE)		长濑	或同等材料
/	EFUXI	XNR3614 胶 (灌封、点对角)		长濑	或同等材料
8	锡	SnCu		云南锡业	或同等材料
9	凡立水				
10	油墨			BON MARQUE	黑色
11	助焊剂	BST-909		博兰	或同等材料
12	酒精			南马厂	
13	包装	GCDS125		德昌	或同等材料



4. BASE 面有缺口处为起线点.

5. 可靠性试验

5.1 MECHANICAL

		1	
TEST ITEM	SPECIFICATION	TEST DETAILS	
Substrate bending	△ L/Lo ≤ ±5% There shall be no mechanical damage or elec-trical damege.	The sample shall be soldered onto the printed circuit board in figure 1 and a load applied unitil the figure in the arrow direction is made approximately 3mm.(keep time 30 seconds) PCB dimension shall the page 7/9 F(Pressurization) PRESSURE ROD figure-1	
Vibration	\triangle L/Lo $\leq \pm 5\%$ There shall be no mechanical damage.	The sample shall be soldered onto the printed circuit board and when a vibration having an amplitude of 1.52mm and a frequency of from 10 to 55Hz/1 minute repeated should be applied to the 3 directions (X,Y,Z for 2 hours each. (A total of 6 hours).	
Solderability	New solder More than 90%	Flux (rosin, isopropyl alcohol{JIS-K-1522}) shall be coated over the whole of the sample before hard, the sample shall then be preheated for about 2 minutes in a temperature of $130 \sim 150~\text{C}$ and after it has been immersed to a depth 0.5mm below for 3 ± 0.2 seconds fully in molten solder M705 with a temperature of $245\pm5~\text{C}$. More than 90% of the electrode sections shall be couered with new solder smoothly when the sample is taken out of the solder bath.	



5.1 MECHANICAL

TEST ITEM	SPECIFICATION	TEST DETAILS		
Resistance to Soldering heat (reflow soldering)	There shall be no damage or problems.	Temperature profile of reflow soldering soldering (Peak temperature 260±3°C 10 sec 150 Pre-heating Pre-heating Slow cooling (Stored at room temperature) The specimen shall be passed through the reflow oven with the condition shown in the above profile for 1 time. The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made.		

5.2 ELECTRICAL

TEST ITEM	SPECIFICATION	TEST DETAILS
	There shall be	DC 100V voltage shall be applied across this sample of top surface
Insulation	no other damage	and the terminal.
resistance	or problems.	The insulation resistance shall be more than $1 \times 10^8 \Omega$.
Dielectric	There shall be	AC 100V voltage shall be applied for 1 minute acrosset the top
Withstand	no other damage or	surface and the terminal of this sample.
voltage	Problems.	
		The test shall be performed after the sample has stabilized in
Temperature	$\triangle L/L20 \text{°C} \leq \pm 10\% 0 \sim$	an ambient temperature of - 20 to + 85 °C ,and the value
characteristics	2000 ppm/°C	calculated based on the value applicable in a normal
		temperature and narmal humidity shall be $\triangle L/L \ 20^{\circ}C \le \pm 10\%$.



5.3 ENVIROMENT CHARACTERISTICS

TEST ITEM	SPECIFICATION	TEST DETAILS		
High temperature storage	△ L/Lo≦±5% There shall be no mechanical damage.	The sample shall be left for 96 ± 4 hours in an atmospere with a temperature of $85\pm2^{\circ}C$ and a normal humidity. Upon completion of the measurement shall be made after the sample has been left in a normal temperature and normal humidity for 1 hour.		
Low temperature storage	△ L/Lo ≦ ± 5% There shall be no mechanical damage.	The sample shall be left for 96 ± 4 hours in an atmosphere with a temperature of $-25\pm3^{\circ}$ °C. Upon completion of the test, the measurement shall be made after the sample has been left in a normal temperature and normal humidity for 1 hour.		
	L/Lo $\leq \pm 5\%$ There shall be no other dama-ge of problems	The sample shall be subject to 5 continuos cycles, such as shownin the table 2 below and then it shall be subjected to standard stmospheric conditions for 1 hour after which measurement shall be made. table 2		
			Temperature	Duration
Change of	hanga of		−25±3°C (Themostat No.1)	30 min.
Temperature		2	Standard atmospheric	No.1→No.2
		3	85±2℃ (Themostat No.2)	30 min.
		4	Standard atmospheric	No.2→No.1
Moisuture storage	\triangle L/Lo $\leq \pm 5\%$ There shall be no mechanical damage.	The sample shall be left for 96±4 hours in a temperature of 40±2°C and a humidity(RH) of 90~95%. Upon completion of the test, the measurement shall be made after the sample has been left in a normal temperature and normal humidity more than 1 hour.		

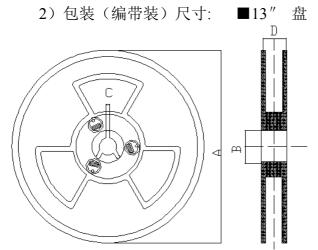
Test conditions:

The sample shall be reflow soldered onto the printed circuit board in every test.



6.包装:

1)包装类型: 编带装;



□7″盘

规格			
尺寸	13 "	7 "	
A	Ф 330±2.0	Ф 178±2.0	
В	Ф 90±2.0		
С	2.3		
D	21.5		

3) 包装方式:卷带包装 500PCS/卷、使用茶色自粘上带;

