
SPECIFICATION FOR APPROVAL**製品規格書**SPEC NO : [SADCMA22062902](#)

CUSTOMER :

客戶名稱 :

CUSTOMER PART NO :

客戶料號 :

PART NO :[DCMA1206P2S-501](#)**QUANTITY :**

數量 :

[5](#) PCS**DATE :**

日期 :

[2022-6-29](#)**REV NO :**

版本 :

1.0

CUSTOMER APPROVE

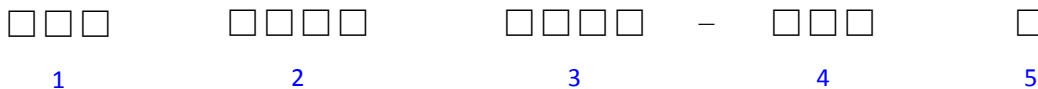
⊕ **Feature**

- Low profile.
- Toroidal construction.
- Fully encapsulated.

⊕ **Applications**

- Balanced antennas.
- Receivers / Transmitters.

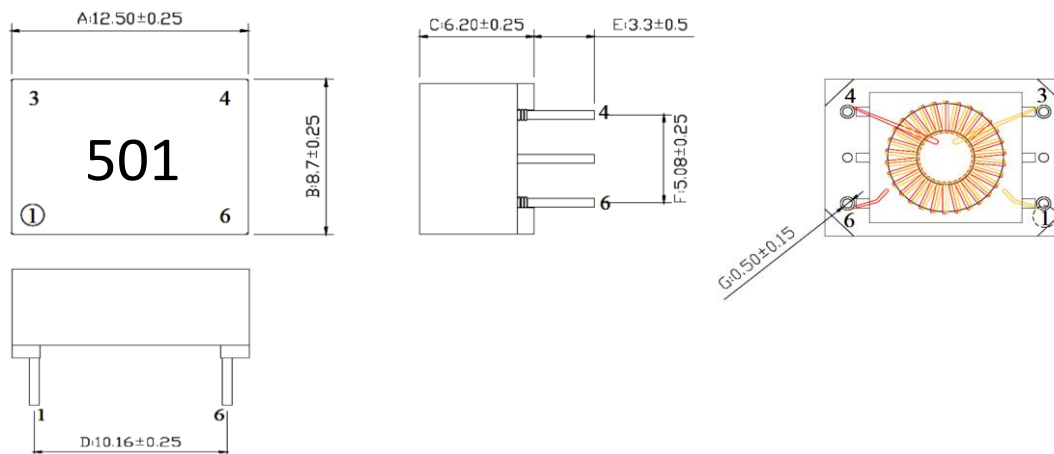
⊕ **Product Identification :**



Series name	Dimensions Code		Internal code
DCMA	1206	12.5x8.7x6.2mm	2R0 = 2A 100 = 10A

Inductance		Tolerance	
501	500 uH	N	30%

⊕ **Shapes And Dimensions**



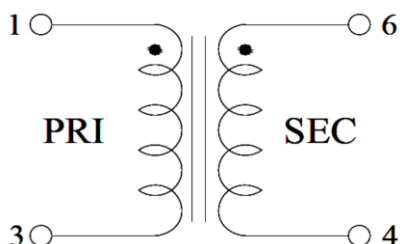
⊕ **Electrical Characteristics :**

Part No.	Pin No	L	Leakage Inductance	DCR	Interwinding Capacitance
		10KHz/0.1V (uH)	10KHz/0.1V (uH)	(Ω)	(pF)
DCMA1206P2S-501	1-4(N1)	500	0.25	0.34	22
	2-3(N2)	500	0.25	0.34	22
		Min	Typ	Max	Typ

※Hi-pot : 1000Vac,1mA,3S.

※Turn Ratio : Pri:Sec. =1:1±3%.

⊕ **Equivalent Circuit Schematic :**



⊕ **Material List :**

No.	Location	Material
1	Core(Topcore)	Ferrite Core
2	Wire	2UEW
3	Base	T375HF , 150°C UL:E59481
4	Adhesive	306
5	Solder	Sn99.3 Cu0.7

1.Operating temperature -30°C ~ +105°C

2.Keep Temperature Range -30°C ~ +60°C

General Purpose Pulse Transformers \ DCMA Type

TEST DATA FOR PREPRODUCTION SAMPLES

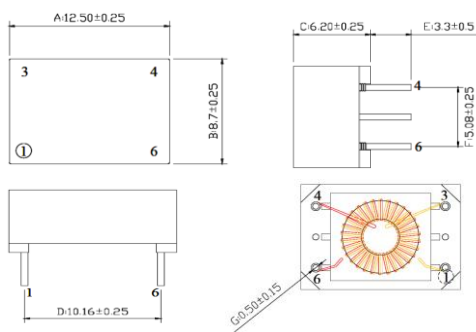
Customer		Test Date	2022-6-29		
RSiN Part No.	DCMA1206P2S-501	Sample Quantity	5	PCS	
Lot No		Test Temp	25°C	Test Humidity	62%

MEAS Item	Ls (uH)	Lk (uH)	DCR (Ω)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)		
SPEC	500	0.25	0.34	12.50	8.70	6.20	10.16	3.30	5.08	0.50		
Upper	-	-	0.34	12.75	8.95	6.45	10.41	3.80	5.33	0.65		
Lower	500	-	-	12.25	8.45	5.95	9.91	2.80	4.83	0.35		
Tolerance	Min	Typ	Max	0.25	0.25	0.25	0.25	0.50	0.25	0.15		
Test Freq.	10KHz/0.1V	-										
1	855.60	0.163	0.236	12.44	8.74	6.20	10.11	3.39	4.99	0.50		
2	900.80	0.138	0.234	12.45	8.77	6.19	10.13	3.45	5.02	0.50		
3	969.60	0.155	0.237	12.50	8.76	6.18	10.12	3.45	5.04	0.50		
4	1004.20	0.166	0.235	12.47	8.75	6.18	10.13	3.32	5.03	0.49		
5	985.60	0.192	0.235	12.46	8.76	6.18	10.11	3.35	5.02	0.50		
6												
7												
8												
9												
10												
Average	943.16	0.16	0.24	12.46	8.76	6.19	10.12	3.39	5.02	0.50		
Max	1004.20	0.19	0.24	12.50	8.77	6.20	10.13	3.45	5.04	0.50		
Min	855.60	0.14	0.23	12.44	8.74	6.18	10.11	3.32	4.99	0.49		
Range	148.60	0.05	0.00	0.06	0.03	0.02	0.02	0.13	0.05	0.01		
StDevP	56.01	0.02	0.00	0.02	0.01	0.01	0.01	0.05	0.02	0.00		

Test Instrument

- LCR: [CH1062](#)、[HP4284A](#) or Equivalent
- DCR: [502BC](#)、[HIOKI3540](#) or Equivalent
- I.R.: [NF2511A](#) or Equivalent
- Hi-Pot: [2671](#) or Equivalent

Configuration



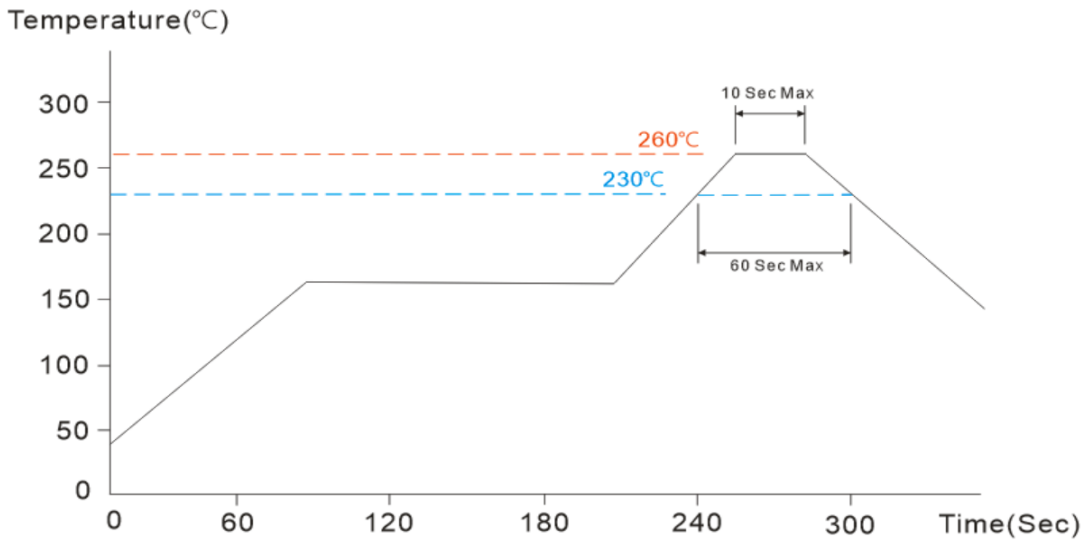
⊕ Environmental test

Item	Test Method/Conditions	Required Characteristics
DRY HEAT	105+/-5°C 96 +/-2HOURS	1. NO ANY ABNORMALITY 2. $ \Delta L /L \leq 10\%$ 3. OTHER ELECTRICAL CHARACTERISTICS MUST ACCORD WITH THE SPECIFICATION.
COLD	-20+/-3°C 96 +/-2HOURS	
DAMP HEAT	55+/-2°C, 90-95% RH 96 +/-2HOURS.	
THERMAL SHOCK	EXPOSED 10 CYCLE. EACH CONSISTING OF 30 MINUTES AT -20+/-2°C, 30MINUTES AT 80+/-2°C	
HUMIDITY CYCLING	-10°C~+60°C, 80~96%RH FOR 240HOURS(10 CYCLES)	
HIGH TEMPERATURE STORAGE	80±2°C,48±2 HOURS,TEST AFTER 1 HOUR AT ROOM TEMPERATURE	
LOW TEMPERATURE STORAGE	-20±2°C,48±2 HOURS,TEST AFTER 1 HOUR AT ROOM TEMPERATURE	

⊕ Mechanical test

Item	Test Method/Conditions	Required Characteristics
TERMINAL STRENGTH	TENSILE TESTS CARRIED OUT ACCORDING TO TABLE 1	NO PIN BE SHEDED AND MOVED CLEARLY
VIBRATION	1.5mm AMPLITUDE TOTAL EXCURSION 10-55-10Hz TRAVERSED IN 1 MINUTE. X.Y.Z. AXIS FOR 2 HOURS.	SHALL NOT BE ANY ABNORMALITY, ELECTRICAL CHARACTERISTICS MUST ACCORD WITH THE SPECIFICATION
RESISTANCE TO SOLDERING HEAT	DIPPED IN 260°C+/-5°C MOLTEN SOLDER FOR 10+/-1s.	NO ANY ABNORMALITY.
SOLDERBILITY	DIPPED IN 260°C+/-5°C MOLTEN SOLDER FOR 10+/-1s.	95%MIN SHALL BE SMOOTH AND BRIGHT.

⊕ **Reflow Soldering Heat Endurance**

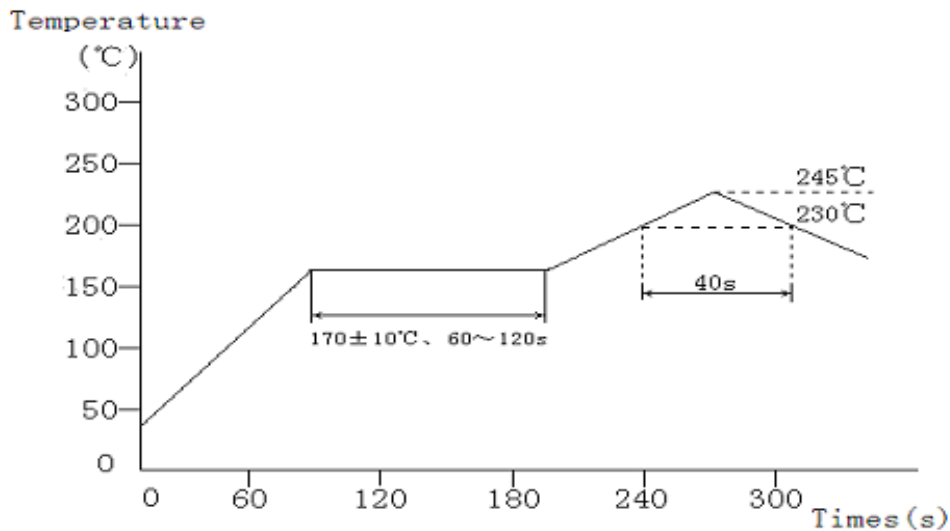


No mechanical and electrical defects are found after testing based on the above profile and keeping under the conditions of room temperature and humidity for 2 hours.

Twice reflow test is acceptable with the test interval remaining 1 hour under the normal conditions.

The reflow test profile may vary with the testing instruments.

⊕ **Recommended Reflow Conditions**



The recommended reflow profile is based on the testing instruments used. Solder ability will depend on the testing equipments, reflow conditions, testing method, etc. So it is necessary to make a confirmation of them when the reflow conditions are set up.

However halogen lamp shall be used, side heat will be beyond range of resistance heat, so we can't recommend it.

⊕Packing Specifications

一、 外箱规格（纸箱）：

成品代碼	料號	外箱規格	數量	重量
DCMA Series	DCMA1206P2S-501	40cm*28cm*13cm	PCS	Kg



二、 每箱内包装摆放方式：

成品代碼	料號	包裝方式	包裝數量及說明
DCMA Series	DCMA1206P2S-501	P.E.T	37cm*26cm*3cm 每盤 PCS (10*2*11 PCS), 共盤

NOTE/注意:The every part measure is a reference value./以上各尺寸是参考值。