LIAONING DIYA CAPACITOR CO., LTD
辽宁迪亚电容器有限公司

FACTORY: LIAONING DIYA CAPACITOR CO.,LTD.	工厂: 辽宁迪亚电容器有限公司
FACTORY ADD: North 3 Road 12, The East of Road C	工厂地址: 中國辽宁省，阜新市，
Economic. & Technological Development Zone Fuxin Liaoning China	经济技术开发区C路东12路北3号
SALE TEL: 0086-0418-6533333	销售电话: 0086-0418-6533333
SALE FAX: 0086-0418-6534333	销售传真: 0086-0418-6534333
TECHNIQUE TEL: 0086-0418-6690599	技术电话: 0086-0418-6690599
TECHNIQUE FAX: 0086-0418-6534777	技术传真: 0086-0418-6534777

CUSTOMER		
ITEM		
CUSTOMER'S PART NO.		
DIYA'S P/N	**CL71**	
ISSUED DATE		
Customer Approved	**Tested**	**Approved**
	Zhangshujie	Shihongyan
DATE:		

CONTENTS

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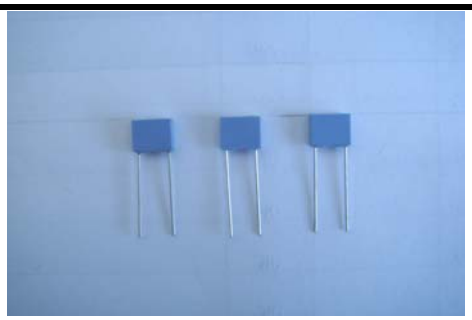
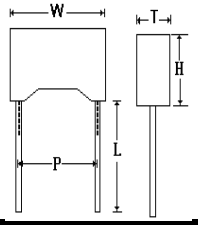
Metallized polyester film capacitor-box CL71



BLUE BOX



22nJ100

Dimensions（Unit:mm）

DIYA'S P/N	CUSTOMER'S PART NO.	Cr	Tol.	RV.	TV.	W	H	T	P	d	L	STYLE
		μF	±%	VDC	VDC	max	max	max	±1.0	±0.05	min	BK/TP
CL71-100V-102J		0.001	5	100	1.6UR	7.2	6.5	2.5	5	0.5		
CL71-100V-152J		0.0015	5	100	1.6UR	7.2	6.5	2.5	5	0.5		
CL71-100V-222J		0.0022	5	100	1.6UR	7.2	6.5	2.5	5	0.5		
CL71-100V-332J		0.0033	5	100	1.6UR	7.2	6.5	2.5	5	0.5		
CL71-100V-472J		0.0047	5	100	1.6UR	7.2	6.5	2.5	5	0.5		
CL71-100V-562J		0.0056	5	100	1.6UR	7.2	6.5	2.5	5	0.5		
CL71-100V-682J		0.0068	5	100	1.6UR	7.2	6.5	2.5	5	0.5		
CL71-100V-822J		0.0082	5	100	1.6UR	7.2	6.5	2.5	5	0.5		
CL71-100V-103J		0.01	5	100	1.6UR	7.2	6.5	2.5	5	0.5		
CL71-100V-153J		0.015	5	100	1.6UR	7.2	6.5	2.5	5	0.5		
CL71-100V-223J		0.022	5	100	1.6UR	7.2	6.5	2.5	5	0.5		
CL71-100V-333J		0.033	5	100	1.6UR	7.2	6.5	2.5	5	0.5		
CL71-100V-473J		0.047	5	100	1.6UR	7.2	6.5	2.5	5	0.5		
CL71-100V-563J		0.056	5	100	1.6UR	7.2	6.5	2.5	5	0.5		
CL71-100V-683J		0.068	5	100	1.6UR	7.2	6.5	2.5	5	0.5		
★CL71-100V-823J		0.082	5	63	100.8	7.2	6.5	2.5	5	0.5		
★CL71-100V-104J		0.1	5	63	100.8	7.2	6.5	2.5	5	0.5		
★CL71-100V-224J		0.22	5	63	100.8	7.2	7.5	3.5	5	0.5		
★CL71-100V-334J		0.33	5	63	100.8	7.2	9.5	4.5	5	0.6		
★CL71-100V-474J		0.47	5	63	100.8	7.2	9.5	4.5	5	0.6		
★CL71-100V-684J		0.68	5	63	100.8	7.2	11	6	5	0.6		
★CL71-100V-105J		1.0	5	63	100.8	7.2	11	6	5	0.6		

TYPE：CL71

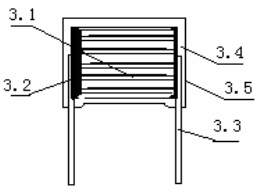
1	PRODUCT SCOPE	It is sealed by the flame-retarded epoxy resin, it has good reliable ,low loss,good electrical features,uniform dimension.and sell-healing effect.it can be widely applied in all kinds of radial taping and can be automatic assemble.it can be widely applied in all kinds of circuit or DC and pulse

2、STANDARD ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS

NO.	ITEM	TEST CONDITIONS
2.1	AMBIENT TEMPERATURE	15℃ to 35℃ (If there is any doubt on the results, the measurements shall be made at 20±5℃)
2.2	RELATIVE HUMIDITY (R.H.)	30% to 80% (If there is any doubt on the results, the measurements shall be made at 60% to 70%.)
2.3	AIR PRESSURE	86 kpa to 106 kpa.
2.4	OPERATING TEMPERATURE RANGE	-55℃to +85℃ for which the capacitor can be operated continuously at rated voltage.

3、CONSTRUCTION

NO.		
3.1	DIELECTRIC	Metallized Polyester Film
3.2	METAL SPRAY	Special Solder
3.3	LEAD WIRE	Wire
3.4	INNER COATING	Epoxy Resin（UL94-V0）
3.5	OUTER COATING	PBT Case（UL94-V0）



4、MARKING

4.1	TRADEMARK		22nJ100
4.2	CAPACITANCE	0.022μF	
4.3	TOLERANCE	J：±5%	
4.4	RATED VOLTAGE	100V	
4.5	MARKING COLOR	Black	

TYPE：CL71

5、ELECTRICAL CHARACTERISTICS：

NO.	ITEM		PERFORMANCE	TESTING METHOD
5.1	Withstand Voltage (TV)	Between Terminals	Shall be no abnormality.	1.6UR for rated voltage .with ★ is 100.8V . 1~5 sec. at 20±5℃ The charging current must be ≤1 Amp
5. 2	Insulation Resistance (I.R.)		≥7500MΩ (Cr≤0.33uF) ≥2500S (Cr＞0.33uF)	Apply Vt±15% for 60 ±5 sec.
5. 3	Capacitance (CAP)		Within the tolerance specified at 20±5℃	Measuring Frequency:1KHz±10%. Measuring Voltage ： ≤1 Vrms
5. 4	Dissipation Factor (DF)		≤0. 010 (1%) at 1 KHz.	Measuring Frequency:1KHz±10%. Measuring Voltage ： ≤1 Vrms
5. 5	Soldering Property		More than 90% of circumferential surface of lead wire shall be covered with new solder.	Soldering temperature ： 235 ±5℃ Immersion duration ： 2±0.5 sec.

6. ENDURANCE CHARACTERISTICS：

NO.	ITEM		PERFORMANCE	TESTING METHOD
6. 1	Damp Heat Loading	Appearance	Shall be no remarkable change. The marking shall be legible.	Test temperature ： 40±2℃ humidity ： 90% to 95% R.H. Test duration：21d. After test, allow it stay alone for 1.5±0.5 hrs at standard temperature and humidity before making measurements.
		Capacitance Change Rate (△C/C)	Within ±5% of the value before test.	
		Dissipation Factor Change	△Tanδ：0.5% max	
		Insulation Resistance (I.R.)	≥50% of the limit value of No. 5.2.	

TYPE：CL71

6. ENDURANCE CHARACTERISTICS：

NO.	ITEM		PERFORMANCE	TESTING METHOD
6.2	High Temperature loading	Appearance	Shall be no remarkable change.	Test Temperature：85 ±5℃. Apply 125%of rated voltag for1000 $^{+2}_{-0}$ hrs; After test, allow it stay alone for1.5±0.5hrs at standard temperature and humidity before making measurements.
		Capacitance Change(△C/C)	Within±5%of the value before test.	
		Dissipation Factor Change	△Tanδ：0.3% max.(10KHz)	
		Insulation Resistance (I.R.)	≥50% of the limit value of No. 5.2.	
6.3	Heat Resistance	Appearance	Shall be no remarkable change.	Test temperature：85±5℃ Test time ： 16+1/-0 hrs.
6.4	Cold Resistance	Appearance	Shall be no remarkable change.	Test temperature ： -55±2℃ Test time ： 2±0.5 hrs.
6.5	Rapid Temperature Change	Appearance	Shall be no remarkable change.	Test temperature cycle：Total 5cycles High Temperature：85±5℃ Low Temperature ： -55±5℃ 30±3 min for each temperature

TYPE：CL71

6. ENDURANCE CHARACTERISTICS：

NO.	ITEM		PERFORMANCE	TESTING METHOD
6.6	Resistance to Soldering Heat	Appearance	Shall be no remarkable change. The marking shall be legible.	Soldering Temperature：260±5℃ Immersion Duration：3±0.5 sec. Immersion depth：4±0.5 mm from roots. After test, allow it stay alone for1.5±0.5 hrs. at standard temperature and humidity before making measurements.
		Capacitance Change Rate (△C/C)	Within±3%of the value before test.	

7. ACCEPTABLE QUALITY LEVEL (AQL)

NO.	ITEM	AQL	SAMPLING PLAN
7.1	Appearance AQL	0.4	According to GB2828-2003
7.2	Dimension AQL	0.4	
7.3	Mechanical Characteristics AQL	0.4	
7.4	Electrical Characteristics AQL		
	CAP, DF,	0.065	
	TV, IR,	0.065	

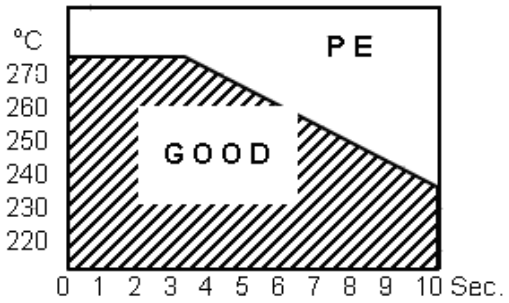
8.STORING CONDITION:

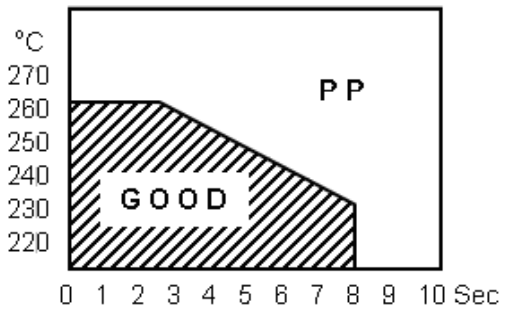
NO.	ITEM	Request＆Times
	Storing condition	The products shall be stored in the conditions not exceeding at a temperature 15~35℃and a humidity 30~80%RH.After more than 6 months need to reply to measure a factory

CHARACTERISTICS REFERENCE

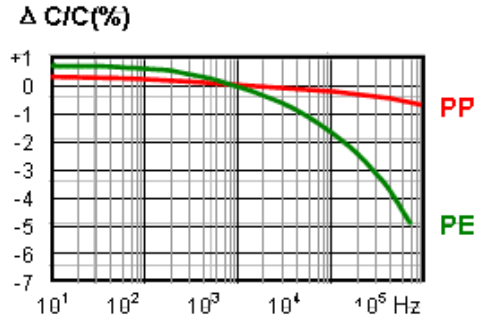
焊锡温度 、频率、温度特性曲线图

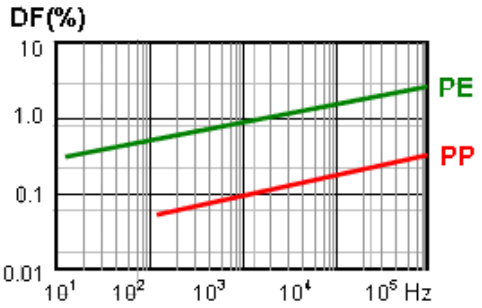
Soldering Temperature VS Time



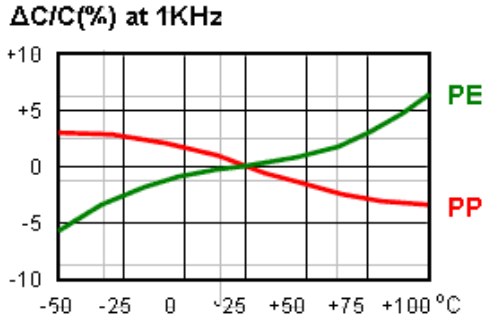


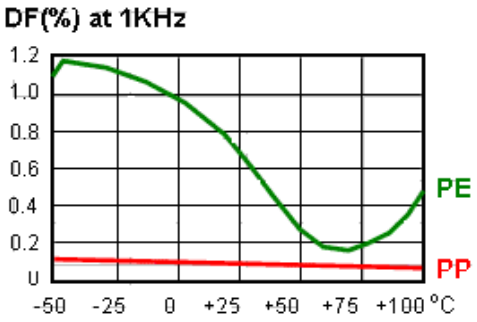
Frequency Characteristics

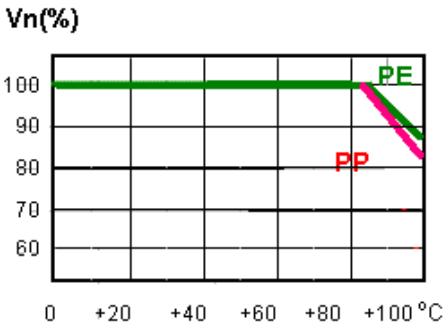


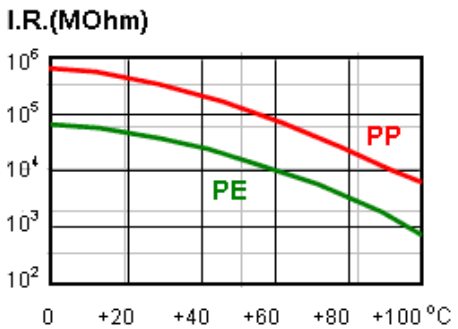


Temperature Characteristics



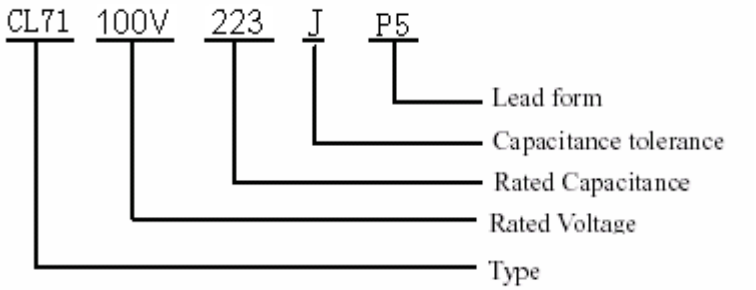






订购须知 Order Notes

The order must know:



1. The model number explain:

PP：Polypropylene Film （CBB21，CBB13，CBB81，CBB20，CBB18，X2-MKP，X1-MKP）

PE：Polyester Film （CL71，CL21X，CL21，CL11，CL12，CL20，X2-MKT，X1-MKT,CL21-B）

2. In common use electric voltage code：

VDC	50	63	100	160	200	250	400
Code	1H	1J	2A	2C	2D	2E	2G
VDC	630	1000	1250	1600	2000	2500	3000
Code	2J	3A	3B	3C	3D	3E	3F

3. The unit converter:

1.0μf=1000nf=1,000,000pf

106= 10,000,000pf=10,000nf=10μf　　105=1000,000pf=1000nf=1.0μf　　104=100,000pf=100nf=0.1μf

103=10,000pf=10nf=0.01μf　　102=1000pf=1nf=0.001μf　　101=100pf=0.1nf=0.0001μf

4.Capacity deviation:

TOL.	±1%	±1.3%	±2%	±3%	±5%	±10%	±20%
Code	F	A	G	H	J	K	M

5. Derivation line shape

5.1 The derivation line keeps the feet

Code	P7.5	P10	P15	P20	P22.5	P30	P35
Pitch	7.5mm	10mm	15mm	20mm	22.5mm	30mm	35mm

5.2 The derivation line model

Code	S7.5	S10	S15	S20	S22.5	S30	S35
Pitch	7.5mm	10mm	15mm	20mm	22.5mm	30mm	35mm