



山锐集团（香港）有限公司

SHANRUI HOLDING (HK) COMPANY LIMITED

金属化聚酯膜电容器 CL21(MEF)

Metallized Polyester Film Capacitor Type: CL21

为无感结构，用金属化聚酯膜作为电介质/电极绕制而成，导线采用镀锡铜包钢线，使用环氧树脂包封。

Are non-inductively wound with metallized polyester film as dielectric/electrode with copper-clad steel leads and epoxy resin coating.

◆ 外形图: Outline Drawing:

	Forming Lead Shapes			
	I	II	III	IV
	$P \geq F$		$P < F$	
	$0\text{mm} < P-F \leq 3\text{mm}$		$3\text{mm} < P-F \leq 5\text{mm}$	$0\text{mm} < P-F \leq 3\text{mm}$
	$F \pm 1.0\text{mm}; A \leq 5.0\text{mm}; B=4.5 \pm 0.5\text{mm}$			

◆ 特性:

- 高阻抗
- 良好的可焊性
- 无感式结构和具有自愈性
- 小型化、节约空间

◆ Features:

- High moisture resistance
- Good solder ability
- Non-inductive construction and self-healing property
- Space-Saving small size

◆ 主要用途:

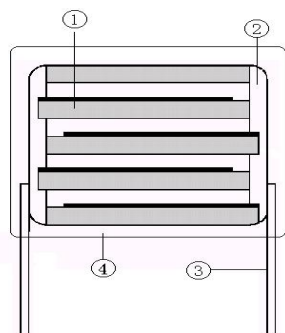
- 适用于直流和 VHF 级信号的隔直流、旁路和耦合。
- 广泛用于滤波、降噪、低脉冲电路。
- 彩电，音响，灯具，电话，计算机，程控交换机，传真机及仪器表

◆ Typical Applications:

- Suitable for blocking, by-pass and coupling of DC and single to VHF range.
- Widely used in filter, noise suppression and low pulse circuits.
- Color TV, acoustics, CFL&HID lamps and ballast, telephone, computer, fax, meters, home appliance(hair drier, soymilk grinder, cooker, icebox, air conditioner, etc. even), torch, power

◆ 结构图:

structure chart:



- ① 金属化聚酯膜
- ② 喷金层
- ③ CP 线
- ④ 环氧树脂

- Metallized polyester film
- Spray Layers
- CP Wires
- Epoxy Resin

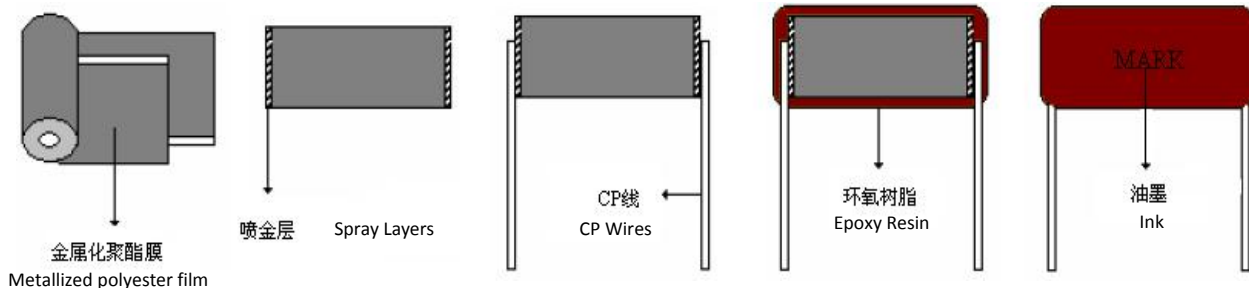
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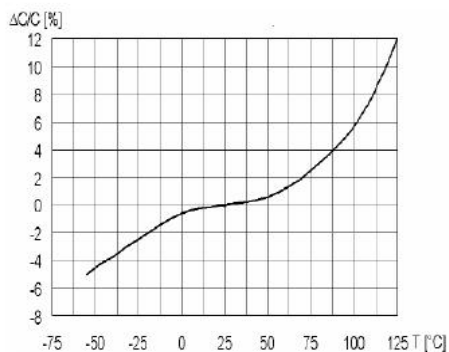
◆ 性能说明: Specification:

参考标准 Reference Standards:	GB7335-87(China)IEC60 384-1(International Electric Committee) GB7332-87(China)														
额定电压 Rated Voltage(UR):	100VDC; 250VDC; 400VDC; 630VDC														
Rated Temperature	85℃														
温度范围 Operation Temperature Range:	-55℃ - +105℃ (+85℃ to +105℃, decreasing factor 1.25% per℃ for VR (dc))														
电容量范围 Capacitance Range:	0.001μF – 10μF														
电 容 量 偏 差 范 围 Capacitance Tolerance Range:	J(±5%); K(±10%); M (±20%)														
电介质 Dielectric:	聚脂膜 Polyester Film														
损 耗 角 正 切 Dissipation Factor Tanδ:	<table><tr><td>KHz</td><td>C≤1 μ F</td><td>> 1μF</td></tr><tr><td>1</td><td>≤1.0%</td><td>≤1.0%</td></tr><tr><td>10</td><td>≤1.5%</td><td>≤1.5%</td></tr><tr><td>50</td><td>≤2.2%</td><td>≤2.5%</td></tr></table>			KHz	C≤1 μ F	> 1μF	1	≤1.0%	≤1.0%	10	≤1.5%	≤1.5%	50	≤2.2%	≤2.5%
KHz	C≤1 μ F	> 1μF													
1	≤1.0%	≤1.0%													
10	≤1.5%	≤1.5%													
50	≤2.2%	≤2.5%													
绝缘电阻，在引出端之间 20±5℃ 1Min Insulation Resistance (Between Terminals):	50VDC For UR≤100VDC; 100VDC For UR> 100VDC 50VDC: CR≤0.33μF ≥7500MΩ CR>0.33μF ≥1250 MΩ·S 100VDC: CR≤0.33μF ≥10000MΩ CR >0.33μF ≥5000 MΩ·S														
耐电压 Withstand Voltage:	1.6UR(5S)														
寿命试验: Life. Test Conditions:	120±2℃，1.25UR，1,000Hours 电容变化率：初始值的≤±5% Capacitance Drift: ≤±5% of The Initial Value 损耗角正切≤原测量值的 C≤1μF ≤5% （10KHz） Dissipation Factor C>1μF ≤3% （1KHz）														

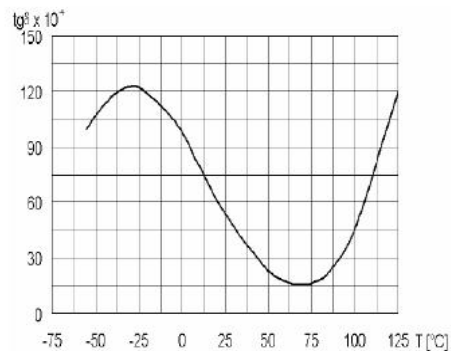


◆ 聚酯膜电容器特性曲线:

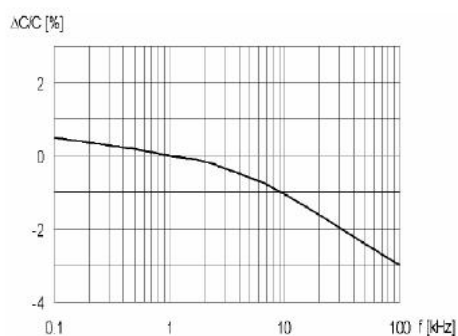
Polyester film capacitor characteristic curve:



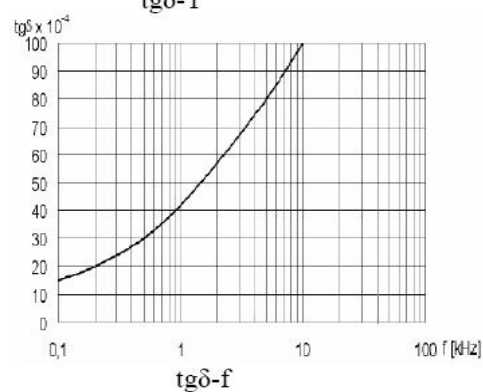
C-T



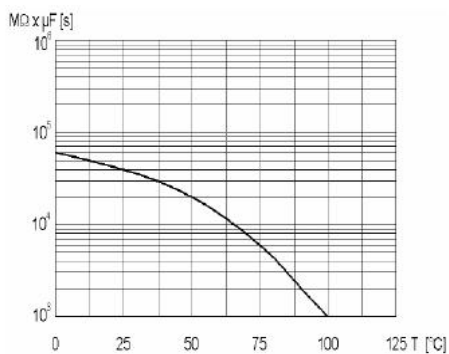
tgδ-T



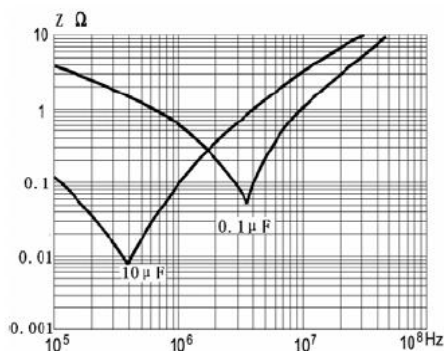
C-f



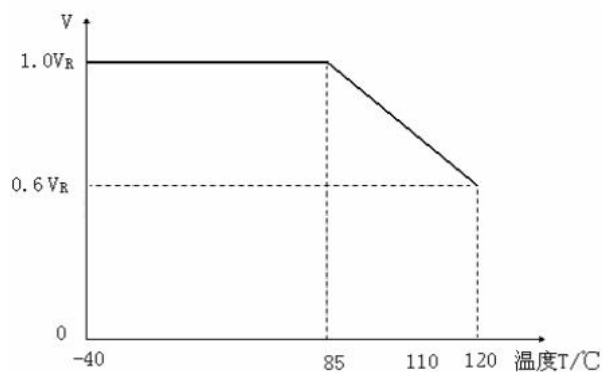
tgδ-f



R-T



Z-f



T-V



◆ 外形尺寸（mm）表
Dimension Lists （mm）

金属化聚酯膜电容器 CL21
Metallized Polyester Film Capacitor Type:
CL21



Cap Code	Cap Value μF	Part No	Dimensions (mm)				
			Wmax	T max	H max	P ± 1.0	d ± 0.05
100VDC(63VAC)							
104	0.1	MEF104K(J)100V	10	3.5	7	7.5	0.6
124	0.12	MEF124K(J)100V	10	3.5	8	7.5	0.6
154	0.15	MEF154K(J)100V	10	4	8	7.5	0.6
184	0.18	MEF184K(J)100V	10	4.5	8.5	7.5	0.6
224	0.22	MEF224K(J)100V	10	5	9.5	7.5	0.6
274	0.27	MEF274K(J)100V	10	5	10.5	7.5	0.6
334	0.33	MEF334K(J)100V	13	5	10	10	0.6
394	0.39	MEF394K(J)100V	13	5.5	10.5	10	0.6
474	0.47	MEF474K(J)100VA	13	6	11	10	0.6
474	0.47	MEF474K(J)100VB	19	4.5	9.5	15	0.6
564	0.56	MEF564K(J)100V	19	5	10	15	0.8
684	0.68	MEF684K(J)100V	19	5.5	10.5	15	0.8
824	0.82	MEF824K(J)100V	19	6	11	15	0.8
105	1	MEF105K(J)100V	19	6.5	11.5	15	0.8
125	1.2	MEF125K(J)100V	19	6.5	13	15	0.8
155	1.5	MEF155K(J)100VA	19	7.5	14.5	15	0.8
185	1.8	MEF185K(J)100V	19	8	15	15	0.8
225	2.2	MEF225K(J)100V	19	9.5	16.5	15	0.8
155	1.5	MEF155K(J)100VB	24	6	12.5	20	0.8
185	1.8	MEF185K(J)100V	24	6.5	13.5	20	0.8
225	2.2	MEF225K(J)100V	24	7.5	14.5	20	0.8
275	2.7	MEF275K(J)100V	24	8	16.5	20	0.8
335	3.3	MEF335K(J)100VA	24	8.5	17.5	20	0.8
335	3.3	MEF335K(J)100VB	29	7.5	16.5	25	0.8
395	3.9	MEF395K(J)100V	29	8.5	17	25	0.8
475	4.7	MEF475K(J)100V	29	10	18	25	0.8



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565	5.6	MEF565K(J)100V	29	11	19	25	0.8
685	6.8	MEF685K(J)100V	29	11	21	27.5	0.8
825	8.2	MEF825K(J)100V	29	13.5	21.5	27.5	0.8
106	10	MEF106K(J)100V	29	15	23	27.5	0.8
126	12	MEF126K(J)100V	29	16.5	24.5	27.5	0.8
250VDC(160VAC)							
103	0.01	MEF103K(J)250V	10	3.5	6.5	7.5	0.6
223	0.022	MEF223K(J)250V	10	3.5	6.5	7.5	0.6
563	0.056	MEF563K(J)250V	10	3.5	6.5	7.5	0.6
683	0.068	MEF683K(J)250V	10	3.5	7.5	7.5	0.6
823	0.082	MEF823K(J)250V	10	3.5	8.5	7.5	0.6
104	0.1	MEF104K(J)250V	10	4	9	7.5	0.6
124	0.12	MEF124K(J)250VA	10	4.5	9.5	7.5	0.6
124	0.12	MEF124K(J)250VB	13	4	9	10	0.6
154	0.15	MEF154K(J)250V	13	4	9	10	0.6
184	0.18	MEF184K(J)250V	13	4.5	9.5	10	0.6
224	0.22	MEF224K(J)250V	13	5	10.5	10	0.6
274	0.27	MEF274K(J)250V	13	6	11	10	0.6
334	0.33	MEF334K(J)250VA	13	6.5	11.5	10	0.6
334	0.33	MEF334K(J)250VB	19	5	10	15	0.8
394	0.39	MEF394K(J)250V	19	5	11.5	15	0.8
474	0.47	MEF474K(J)250V	19	5.5	12	15	0.8
564	0.56	MEF564K(J)250V	19	6	12.5	15	0.8
684	0.68	MEF684K(J)250VA	19	6.5	13	15	0.8
684	0.68	MEF684K(J)250VB	24	6	11	20	0.8
824	0.82	MEF824K(J)250V	24	6	12.5	20	0.8
105	1	MEF105K(J)250V	24	6.5	13	20	0.8
125	1.2	MEF125K(J)250V	24	7.5	14.5	20	0.8
155	1.5	MEF155K(J)250V	24	7.5	16.5	20	0.8
185	1.8	MEF185K(J)250V	24	8.5	17	20	0.8
225	2.2	MEF225K(J)250VA	15.5	7.2	17	15	0.8
225	2.2	MEF225K(J)250VB	23	10	18.5	20	0.8
275	2.7	MEF275K(J)250V	31	9.5	18	25.5	0.8
335	3.3	MEF335K(J)250V	31	10.5	19	25.5	0.8
395	3.9	MEF395K(J)250V	29	11.5	20	25.5	0.8
475	4.7	MEF475K(J)250V	29	13	21	25.5	0.8
565	5.6	MEF565K(J)250V	29	12.5	20.5	31.5	0.8
685	6.8	MEF685K(J)250V	29	13.5	22	31.5	0.8
400VDC(200VAC)							
473	0.047	MEF473K(J)400V	10	3.5	8.5	7.5	0.6

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563	0.056	MEF563K(J)400V	10	4	9	7.5	0.6
683	0.068	MEF683K(J)400V	13	4	9	10	0.6
823	0.082	MEF823K(J)400V	13	4.5	9.5	10	0.6
104	0.1	MEF104K(J)400VA	13	5	10	10	0.6
104	0.1	MEF104K(J)400VB	16.8	5	14	15	0.8
104	0.1	MEF104K(J)400VC	16.8	6	16	15	0.8
124	0.12	MEF124K(J)400V	13	5.5	10.5	10	0.6
154	0.15	MEF154K(J)400V	13	6.5	11.5	10	0.6
184	0.18	MEF184K(J)400V	19	5	10	15	0.8
224	0.22	MEF224K(J)400VA	12	8	11	10	0.6
224	0.22	MEF224K(J)400VB	19	5.5	10.5	15	0.8
274	0.27	MEF274K(J)400V	19	6	11	15	0.8
334	0.33	MEF334K(J)400VA	16	5	8	15	0.8
334	0.33	MEF334K(J)400VB	19	6	13	15	0.8
394	0.39	MEF394K(J)400VA	19	6.5	13.5	15	0.8
474	0.47	MEF474K(J)400VA	19	7.5	14.5	15	0.8
564	0.56	MEF564K(J)400VA	19	8	15	15	0.8
394	0.39	MEF394K(J)400VA	24	5.5	12	20	0.8
474	0.47	MEF474K(J)400VB	24	6	12.5	20	0.8
564	0.56	MEF564K(J)400VB	24	6.5	13	20	0.8
684	0.68	MEF684K(J)400V	24	7.5	14.5	20	0.8
824	0.82	MEF824K(J)400V	24	8	15	20	0.8
105	1	MEF105K(J)400VA	17	8	15	15	0.8
105	1	MEF105K(J)400VB	24	8.5	17	20	0.8
125	1.2	MEF125K(J)400V	24	10	18	20	0.8
155	1.5	MEF155K(J)400V	24	11	19.5	20	0.8
185	1.8	MEF185K(J)400V	24	12	20.5	20	0.8
225	2.2	MEF225K(J)400V	27	11	20	25	0.8
275	2.7	MEF275K(J)400V	29	13	21.5	25	0.8
335	3.3	MEF335K(J)400V	29	14.5	23	25	0.8
395	3.9	MEF395K(J)400V	29	16	24	25	0.8
475	4.7	MEF475K(J)400V	29	17.5	26	25	0.8
630VDC(220VAC)							
682	0.0068	MEF682K(J)630V	13	4	7.5	10	0.6
822	0.0082	MEF822K(J)630V	13	3	7.5	10	0.6
103	0.01	MEF103K(J)630V	13	4	8	10	0.6
123	0.012	MEF123K(J)630V	13	4	8	10	0.6
153	0.015	MEF153K(J)630VA	12	5	10.5	10	0.6
153	0.015	MEF153K(J)630VB	13	4.5	8.5	10	0.6
183	0.018	MEF183K(J)630VA	12	5.3	11	10	0.6

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183	0.018	MEF183K(J)630VB	13	4	8	10	0.6
223	0.022	MEF223K(J)630V	13	3.5	7.5	10	0.6
273	0.027	MEF273K(J)630V	13	3.5	8.5	10	0.6
333	0.033	MEF333K(J)630VA	10	6.6	8.5	7.5	0.6
333	0.033	MEF333K(J)630VB	11.3	6	8.8	10	0.6
333	0.033	MEF333K(J)630VC	13	4	9	10	0.6
393	0.039	MEF393K(J)630V	13	4.5	9.5	10	0.6
473	0.047	MEF473K(J)630V	13	5	10	10	0.6
563	0.056	MEF563K(J)630VA	13	5.5	10.5	10	0.6
683	0.068	MEF683K(J)630VA	13	6	11	10	0.6
823	0.082	MEF823K(J)630VA	13	6.5	11.5	10	0.6
104	0.1	MEF104K(J)630V	13	6.5	13	10	0.6
563	0.056	MEF563K(J)630VB	19	5	9.5	15	0.8
683	0.068	MEF683K(J)630VB	19	5.5	10.5	15	0.8
823	0.082	MEF823K(J)630VB	19	4.5	9.5	15	0.8
104	0.1	MEF104K(J)630V	19	5	10	15	0.8
124	0.12	MEF124K(J)630V	19	5	11.5	15	0.8
154	0.15	MEF154K(J)630V	19	5.5	12.5	15	0.8
184	0.18	MEF184K(J)630V	19	6	13	15	0.8
224	0.22	MEF224K(J)630VA	19	7	13.5	15	0.8
224	0.22	MEF224K(J)630VB				20	0.8
274	0.27	MEF274K(J)630V	19	8	14.5	15	0.8
334	0.33	MEF334K(J)630V	19	8.5	15.5	15	0.8
394	0.39	MEF394K(J)630V	24	7.5	14.5	20	0.8
474	0.47	MEF474K(J)630V	24	8	16.5	20	0.8
564	0.56	MEF564K(J)630V	24	8.5	17	20	0.8
684	0.68	MEF684K(J)630V	24	10	18.5	20	0.8
824	0.82	MEF824K(J)630V	24	11	19.5	20	0.8
105	1	MEF105K(J)630V	31	10.5	19	25	0.8
125	1.2	MEF125K(J)630V	31	11.5	20	25	0.8
155	1.5	MEF155K(J)630V	31	13	21.5	25	0.8
185	1.8	MEF185K(J)630V	31	14.5	23	25	0.8
225	2.2	MEF225K(J)630V	31	16	24.5	25	0.8