


A Worldwide Manufacturer Of Audio Components

 About the serious dealing with branding speakers, About the serious quality and performance.

Beyond The Value!

MXE
Metallized polyester
film capacitor

MXP
Metallized polypropylene
film capacitor

HI.CAP
Metallized polypropylene
film capacitor

PB
Teflon Silver
Capacitor

PPT
Pure Aluminum Foil
Capacitor

BP
Aluminum electrolytic
capacitor

RESISTORS
SQP/SQZ/RX24

HVL CFC
Copper Foil
Coils

SPK
GUARD



**世界级音频
元器件制造商!**



佛山市擎抡电子有限公司
FOSHAN KINGLUN ELECTRONICS Ltd

Add: floor 3, litai building, no. 39, liguang road, nanhai district, foshan city
Mobile No.: 13560010915 Tel: 0757-81110876
Web: www.HVLcomponents.com Email: hvicap@163.com

Welcome to HVL.

- 1962... Germany
- 1979... Taipei
- 1998... China

Germany
1962...

Taipei
1979...

China
1998...



BORN IN GERMANY

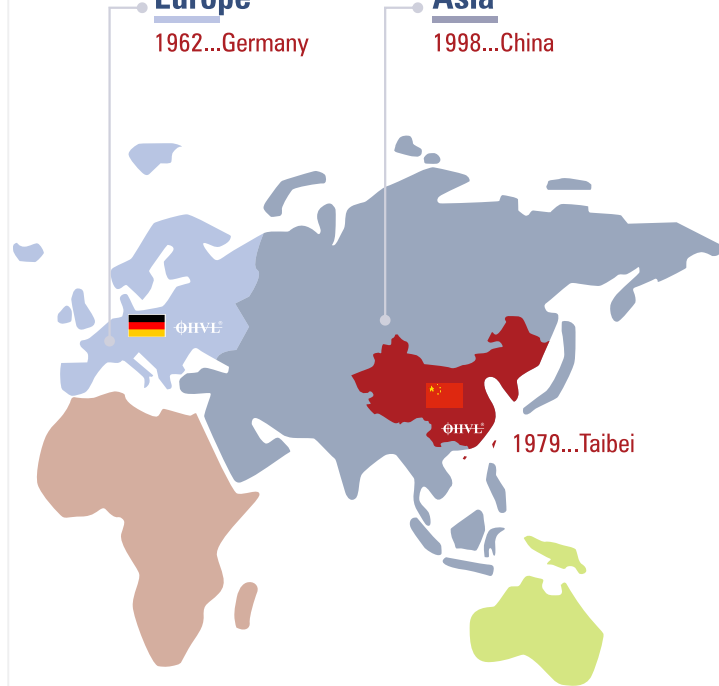


Europe

1962...Germany

Asia

1998...China



We locates here ...

Certificates.



CTI 华测检测

Test Report

Report No. A23700001010002 Page 1 of 11

Applicant: QINGLUN ELECTRONICS CO., LTD.
Address: ROOM 102E HANNING ROAD, WATERLOO LAKEVA AREA, SHANGHAI DISTRICT, SHANGHAI

The following samples and sample information were submitted and identified by the label of the client:

Model: 8-100-0010-01
 Color: RB
 Material: ABS
 Sample Received Date: Dec. 28, 2017
 Testing Period: Dec. 28, 2017 to Jan. 25, 2018

Test Requested: As specified below, in accordance with 174 substances of very high concern (SVHC) under Regulation (EC) No. 1907/2006 of REACH in the submitted samples.

Test Method: Please refer to the following report.

Test Results: Please refer to the following report.

Remarks: According to the analytical results, identification of 174 SVHC substances was not found in the submitted samples.

Sent by: *Chris Cao* Received by: *Antonyang*

Prepared by: *Wen Jiang* Date: Jan. 26, 2018
 Technical Manager

CTI No. 8100002000
 1718 Huiliang Road, 100000 Beijing, China
 Room 102E, Hanning Road, Shanghai, 201300, China

CTI 华测检测

Test Report

Report No. A21700001000008 Page 1 of 1

Applicant: QINGLUN ELECTRONICS CO., LTD.
Address: ROOM 102E HANNING ROAD, WATERLOO LAKEVA AREA, SHANGHAI DISTRICT, SHANGHAI

The following samples and sample information were submitted and identified by the label of the client:

Model: 8-100-0010-01
 Color: RB
 Material: ABS
 Sample Received Date: Dec. 28, 2017
 Testing Period: Dec. 28, 2017 to Jan. 3, 2018

Test Requested: As specified below, in accordance with 174 substances of very high concern (SVHC) under Regulation (EC) No. 1907/2006 of REACH in the submitted samples.

Test Method: Please refer to the following report.

Test Results: Please refer to the following report.

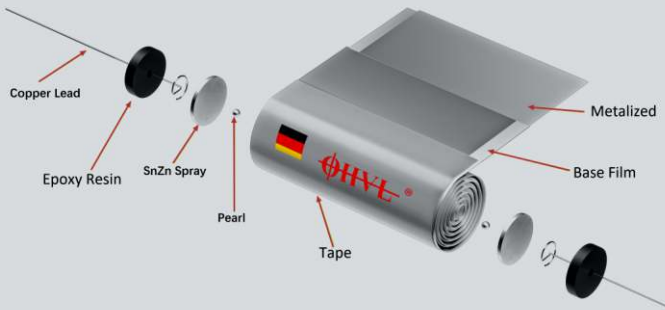
Sent by: *Wing Huang* Received by: *Antonyang*

Prepared by: *Wen Jiang* Date: Jan. 25, 2018
 Technical Manager

CTI No. 8100002000
 1718 Huiliang Road, 100000 Beijing, China
 Room 102E, Hanning Road, Shanghai, 201300, China

A capacitor blows up.

Customization.



Being a manufacturer also allows us to offer flexibility and customisations that are not generally available from other suppliers in the high end audio market. Options include tape, resin and printing colour as well as lead out material, length and diameter.

TAPE OPTIONS

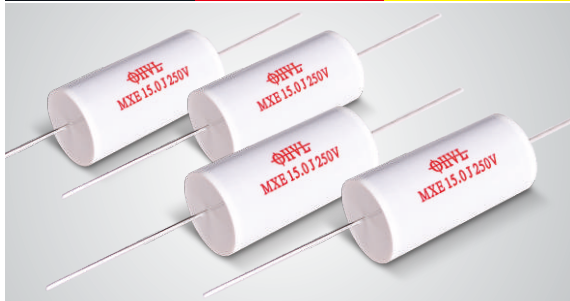


RESIN OPTIONS



MXE

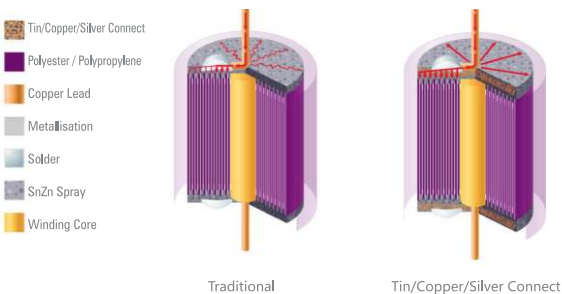
金属化聚酯薄膜电容器 METALLIZED POLYESTER FILM CAPACITOR



The MXE range of capacitors is widely recognized as a sensibly priced premium audio grade capacitor. Time and time again users are astounded by the performance to price.

The inherently low dissipation and dielectric absorption factors of polyester allied with the design's excellent mechanical stability results in an extremely detailed sonic performance.

It is currently specified by some of the best known brands throughout Europe and Asia. It's unsurpassed performance to price ratio make it a very attractive proposition.



HIGHLIGHTS

- Tin connect 锡链接
- Featuring terminal leads made from PC-OCC copper (oxygen free) 无氧铜
- High quality aluminum metallized polyester

TECHNICAL INFORMATION

- Non-polarized capacitor 无极性
- Non inductive construction 结构无感
- Excellent self-healing property 自愈
- Wrapped with polyester adhesive tape
- Ends filled with flame retardant epoxy resin
- Voltage rating: 100VDC 250VDC 400 VDC 630VDC
- Capacitance tolerance: +/- 3% 5% 10% centered on nominal value
- Temperature range: -30°C to +85°C
- Extremely low ESR and ESL
- Dissipation factor: ≤ 1%
- Insulation Resistance: ≥ 10000 MΩ (25°C)

RATINGS AND DIMENSIONS:

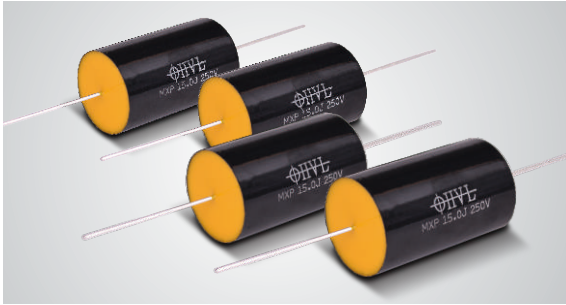
UNIT: millimeter

MFD	100VDC		250VDC		400VDC		630VDC	
	OD	L	OD	L	OD	L	OD	L
0.1			4	14	6.5	19	9	25
0.22			4.5	14	8.5	19	11	25
0.33			5	14	10	19	14	25
0.47			6	14	11	25	14	31
0.68			7	19	12	25	17	31
0.82			8	19	13	25	18	31
1.0	9	19	7.5	24	13	31	19	31
1.2	10	19	9.5	24	14	31	20	31
1.5	11	19	10.5	24	15	31	21	31
1.8	9	24	11.5	24	16	31	22	31
2.0	10	24	12.5	24	17.5	31	20.2	46
2.2	11	24	11	30.5	17	36	22	46
2.5	12	24	11.5	30.5	18	36	22.5	46
2.7	13	24	12	30.5	19	36	24	46
3.0	13.5	24	12.5	30.5	20	36	25	46
3.3	14	24	13	30.5	21	36	26	46
3.8	15	24	14	30.5	22	36	27.5	46
4.3	12	31	15	30.5	20	46	29	46
4.7	13	31	15.5	30.5	22	46	31	46
5.6	14	31	16.5	30.5	24	46	31	56
6.8	15	31	14.5	46	22	56	33	56
8.2	16	31	16	46	24	56	36	56
10.0	19	31	17	46	27	56	40.5	56
12.0	15	26	18.5	46	29.5	56		
15.0	17	46	20.5	46	32	56		
18.0	18	46	22.5	46	34.5	56		
20.0	19	46	23.5	46	37	56		
22.0	21	46	24.5	46	39	56		
27.0	23	46	27.5	46				
30.0	21	56	27	55				
33.0	22	56	29	55				
35.0	25	56	31	55				
47.0	28	56	36	55				
56.0	30	56	35.5	61				
68.0	32	56	38	61				

MXE
Metallized polyester
film capacitor

MXP

金属化聚丙烯薄膜电容器 METALLIZED POLYPROPYLENE FILM CAPACITOR



MXP series has formed the basis of the HVL audio film capacitors Since its birth. Avoiding an additional housing, the simple printing method and the classic longitudinal structure make it possible to create our most compact and cost-effective MXP-types.

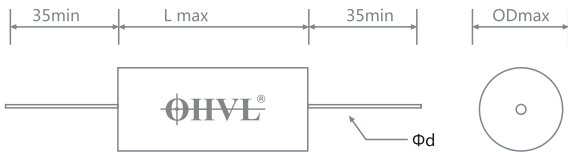
The HVL Classic's three-dimensional, precise sound pattern, the richly detailed, harmonic music playback and dynamics are guaranteed with aluminizing PP capacitor film.

HIGHLIGHTS

- Tin connect 锡链接
- Featuring terminal leads made from PC-OCC copper (oxygen free) 无氧铜
- High quality Aluminum Metallized Polypropylene

TECHNICAL INFORMATION

- Non-polarized capacitor 无极性
- Non inductive construction 结构无感
- excellent self-healing property 自愈
- Wrapped with polyester adhesive tape
- Ends filled with flame retardant epoxy resin
- Voltage rating: 100VDC 250VDC 400 VDC 630VDC
- Capacitance tolerance : +/- 3% 5% 10% centered on nominal value
- Temperature range: -30°C to +85°C
- Extremely low ESR and ESL
- Dissipation factor: ≤ 0.1%
- Insulation Resistance: ≥30000 MΩ (25°C)



RATINGS AND DIMENSIONS:

UNIT: millimeter

MFD	100VDC		250VDC		400VDC		630VDC	
	OD	L	OD	L	OD	L	OD	L
0.1			6.5	14	6	25	10	25
0.22			7	18	7	25	11	25
0.33			7.5	18	9	25	12	25
0.47			7.5	24	10	25	13.5	25
0.68			8.5	24	11	25	15	25
0.82			9	24	12	25	16	25
1.0	8	24	10	24	12	31	16	31
1.2	9	24	10	31	12	31	17	31
1.5	10	24	11.5	31	13	31	18	31
1.8	10	24	12.5	31	14	31	17	35
2.0	10	31	13.5	31	15	31	18	35
2.2	11	31	14.5	31	16	31	20	35
2.5	11.5	31	15	31	17	31	21.5	35
2.7	12	31	15.5	31	18	31	18	45
3.0	12.5	31	16	31	19	31	19	45
3.3	13	31	17	31	20	31	20	45
3.8	14	31	18.5	31	21.5	31	22	45
4.3	15	31	18.5	31	17.5	45	24	45
4.7	16	31	19.5	31	18.5	45	25	45
5.6	17.5	31	21	31	20	45	27	45
6.8	19	31	23	31	22	45	29.5	45
8.2	16.5	45	20	45	24.5	45	32	45
10.0	18	45	22	45	24	55	32	55
12.0	20	45	24	45	25.5	55	34	55
15.0	22	45	27	45	28	55	38	55
18.0	23.5	45	28.5	45	31.5	55		
20.0	26	25	29.5	45	33	55		
22.0	28	45	31	45	35	55		
27.0	28	55	32	55				
30.0	29.5	55	34	55				
33.0	31.5	55	35.5	55				
35.0	29.5	60	34	60				
47.0	31	60	38.5	60				
56.0	34.5	60						
68.0	36.5	60						

MXP
Metallized polypropylene
film capacitor

HI.CAP

金属化聚丙烯薄膜电容器 METALLIZED POLYPROPYLENE FILM CAPACITOR



We've taken the science behind Audio performance very seriously, Only launching new products when we are able to contribute tangible benefits.

Taking inspiration from the highly regarded PB range, the HI.CAP employs the same carefully researched micro-physics reducing processing parameters.

Connection of capacitor electrodes to the leads has always relied on thermal arc spray of tin-zinc, which results in hundreds of thousands of oxidized grain boundaries introducing;

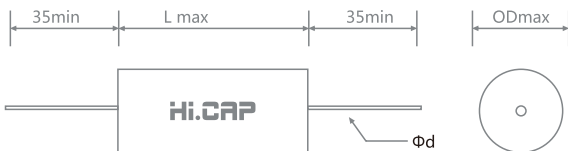
HI.CAP Copper Connect technology dramatically reduces grain boundary crossings in the end connection, The philosophy of eliminating as many crystal boundaries as possible is extended to the use of premium grade 1.0mm² tinned oxygen free copper leads.

HIGHLIGHTS

- Copper Connect 铜链接
- Featuring terminal leads made from PC-OCC copper (oxygen free) 无氧铜
- High quality Aluminum Metallized Polypropylene

TECHNICAL INFORMATION

- Non-polarized capacitor 无极性
- Non inductive construction 结构无感
- Excellent self-healing property 自愈
- Wrapped with polyester adhesive tape
- Ends filled with flame retardant epoxy resin
- Voltage rating: 400VDC
- Capacitance tolerance : +/- 3% 5% 10% centered on nominal value
- Temperature range: -30°C to +85°C
- Extremely low ESR and ESL
- Dissipation factor: ≤ 0.1%
- Insulation Resistance: ≥ 30000 MΩ (25°C)



RATINGS AND DIMENSIONS:

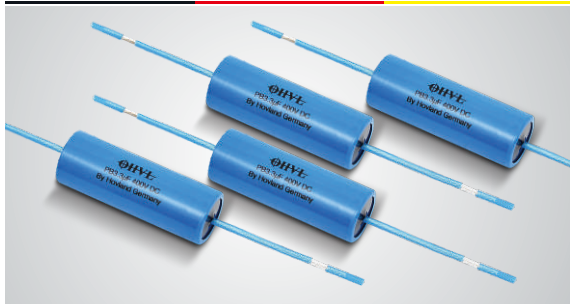
UNIT: millimeter

VDC	100VDC	250VDC	400VDC	630VDC
MFD			OD	L
1.0			12	31
1.5			13	31
1.8			14	31
2.0			15	31
2.2			16	31
2.7			17	31
3.0			19	31
3.3			20	31
4.0			22	31
4.7			18,5	45
5,6			20	45
6,8			22	45
8,2			24,5	45
10			24	55
12			25,5	55
15			28	55
18			31,5	55
22			35	55

HI.CAP
Metallized polypropylene
film capacitor

PB

特氟龙银电容器 TEFLON SILVER CAPACITOR



PB has been our undisputed top capacitor model. It combines all our technical highlights, such as Silver metallic sation, Teflon Insulated Wire. Innovation and evolution winding technology and over 40 years of experience in the manufacturing. finely nuanced and lively shining acoustic colours, which combine into a breathtaking, beautiful, live-like music experience with the utmost precision, presence and three-dimensional plasticity.

HIGHLIGHTS

- Silver connect 银链接
- Featuring terminal leads made from PC-OCC copper (oxygen free)无氧铜
- Teflon Insulated Wire (FEP & Cu & Ag) 16 AWG 0.26mm*19 $\phi d = 1.2$ mm 特氟龙
- Featuring extremely high quality German made foil, metalized with Aluminum and Zinc particles 德国薄膜

TECHNICAL INFORMATION

- Non-polarized capacitor 无极性
- Non inductive construction 结构无感
- Zinc / Aluminum Metallized Polypropylene
- excellent self-healing property 自愈
- Wrapped with polyester adhesive tape and Heat shrinkable sleeve
- Ends filled with flame retardant epoxy resin
- Voltage rating: 400 VDC
- Capacitance tolerance : +/- 3% 5% 10% centered on nominal value
- Temperature range: -30°C to +85°C
- Extremely low ESR and ESL
- Dissipation factor: $\leq 0.1\%$
- Insulation Resistance: ≥ 30000 M Ω (25°C)



RATINGS AND DIMENSIONS:

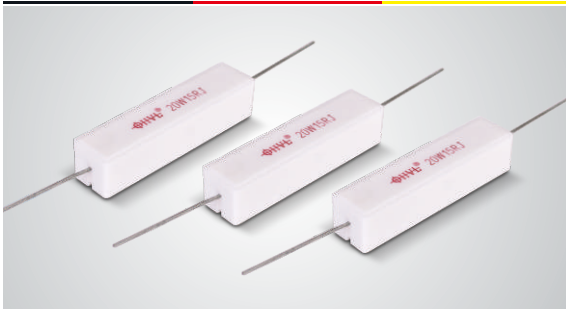
UNIT: millimeter

VDC	100VDC	250VDC	400VDC	630VDC
MFD			OD	L
1.0			12	31
1.5			13	31
1.8			14	31
2.0			15	31
2.2			16	31
2.7			17	31
3.0			19	31
3.3			20	31
4.0			22	31
4.7			18,5	45
5,6			20	45
6,8			22	45
8,2			24,5	45
10			24	55
12			25,5	55
15			28	55
18			31,5	55
22			35	55

PB
Teflon Silver
Capacitor

SQP

电阻 RESISTORS



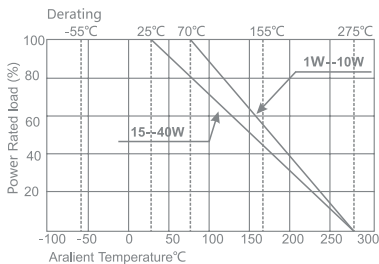
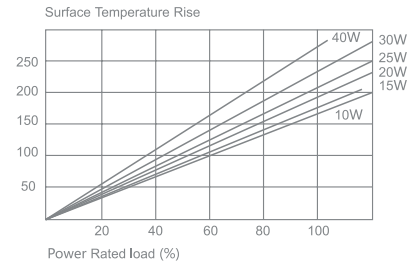
HIGHLIGHTS

- Small in size and with high durability.
- A good quality resistor for cost efficient application on PCB based crossovers.

CONSTRUCTION



CURVE DIAGRAM



DIMENSIONS

UNIT: millimeter

TYPE	L±1	W±0.5	H±0.5	d±0.02
1W	12	6	6	0.6
2W	18	7	7	0.7
3W	22	8	8	0.7
5W	22	10	10	0.8
7W	35	10	10	0.8
10W	48	10	10	0.8
15W	48	12.5	12.5	0.8
20W A(20WB)	60 (63)	14 (12.5)	14 (12.5)	1.0
30W	64	16	16	1.0

POWER CHARACTERISTIC

POWER RATED	1W	2W	3W	5W	7W	10W	15W	20W
ITEM								
Max working Voltage	350V	350V	500V	750V	1000V	1000V	1000V	1000V
Max overload Voltage	700V	700V	1000V	1500V	1500V	1500V	1500V	1500V
Max intermittence overload voltage	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V
Dielectric withstanding voltage	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V
Resistance tolerance	±5% J	±5% J	±5% J	±5% J	±5% J	±5% J	±5% J	±5% J

PERFORMANCE

TEST CHARACTERISTICS	PERFORMANCE REQUIREMENT	
Temperature coefficient of resistance	$\geq 20\Omega \leq \pm 350\text{ppm}/^\circ\text{C}$	$< 20\Omega \leq \pm 400\text{ppm}/^\circ\text{C}$
Overload	$\Delta R \leq \pm(5\%R + 0.05)$ No visible damage and the marking shell be legible	
Voltage proof	No breakdown or flashover	
Intermittent Overload	$\Delta R \leq \pm(2\%R + 0.05)$ No visible damage and the marking shell be legible	
Robustness of terminations	No visible damage	
Solder ability	The terminations shall be examined for good tinning an evidenced by flowing of the solder with of the terminations .	
Resistance to soldering beat	$\Delta R \leq \pm(1\%R + 0.05)$ No visible damage and the marking shell be legible	
Rapid change of temperature	$\Delta R \leq \pm(2\%R + 0.05)$	No visible damage
Solvent resistance	No visible damage and the marking shell be legible	
Moisture resistance	Wire -wound : $\Delta R/R \leq \pm 5\%$	No visible damage
Endurance (load life)	Wire -wound : $\Delta R/R \leq \pm 5\%$	No visible damage

RESISTORS
SQP/SQZ/RX24

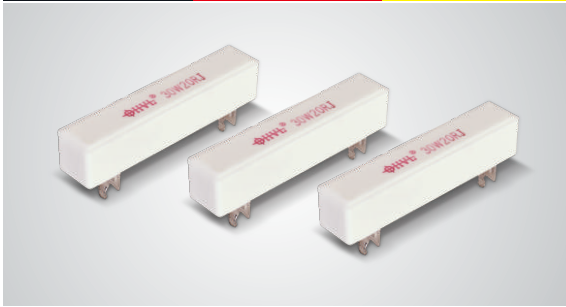
OHVE[®]
Capacitors, resistors and more.....

FOSHAN KINGLUN ELECTRONICS Ltd



SQZ

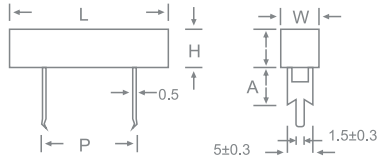
电阻 RESISTORS



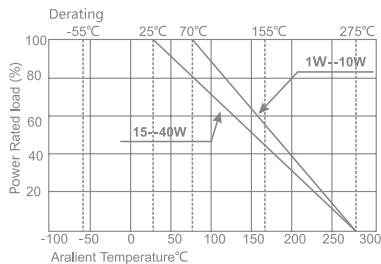
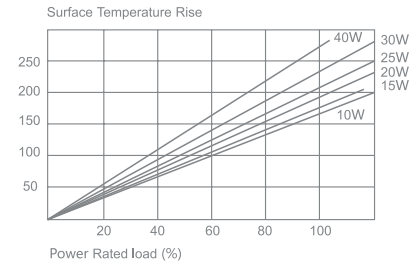
HIGHLIGHTS

- Small in size and with high durability.
- A good quality resistor for cost efficient application on PCB based crossovers.

CONSTRUCTION



CURVE DIAGRAM



DIMENSIONS

UNIT: millimeter

TYPE	W±1,0	H±1,0	L±1,0	P±2,0	A±1,0
3W	10	10	25	13	6
5W	10	10	27	15	6
7W	10	10	35	22	6
10W	10	10	48	33	6
15W	12	12	48	33	8
20W	12	12	63 (60)	45	8
30W	16	16	64	45	8

POWER CHARACTERISTIC

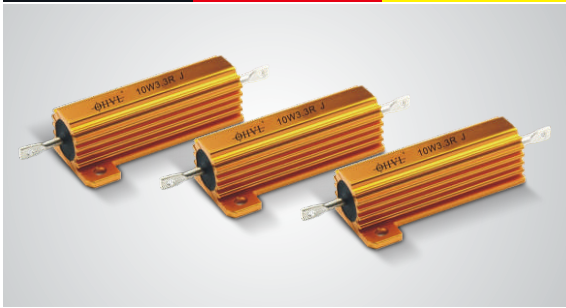
POWER RATED	1W	2W	3W	5W	7W	10W	15W	20W
ITEM								
Max working Voltage	350V	350V	500V	750V	1000V	1000V	1000V	1000V
Max overload Voltage	700V	700V	1000V	1500V	1500V	1500V	1500V	1500V
Max intermittence overload voltage	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V
Dielectric withstanding voltage	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V
Resistance tolerance	±5% J	±5% J	±5% J	±5% J	±5% J	±5% J	±5% J	±5% J

PERFORMANCE

TEST CHARACTERISTICS	PERFORMANCE REQUIREMENT	
Temperature coefficient of resistance	$\geq 20\Omega \leq \pm 350\text{ppm}/^\circ\text{C}$	$< 20\Omega \leq \pm 400\text{ppm}/^\circ\text{C}$
Overload	$\Delta R \leq \pm (5\%R + 0.05)$ No visible damage and the marking shell be legible	
Voltage proof	No breakdown or flashover	
Intermittent Overload	$\Delta R \leq \pm (2\%R + 0.05)$ No visible damage and the marking shell be legible	
Robustness of terminations	No visible damage	
Solder ability	The terminations shall be examined for good tinning an evidenced by flowing of the solder with of the terminations .	
Resistance to soldering beat	$\Delta R \leq \pm (1\%R + 0.05)$ No visible damage and the marking shell be legible	
Rapid change of temperature	$\Delta R \leq \pm (2\%R + 0.05)$	No visible damage
Solvent resistance	No visible damage and the marking shell be legible	
Moisture resistance	Wire -wound : $\Delta R/R \leq \pm 5\%$	No visible damage
Endurance (load life)	Wire -wound : $\Delta R/R \leq \pm 5\%$	No visible damage

RX24

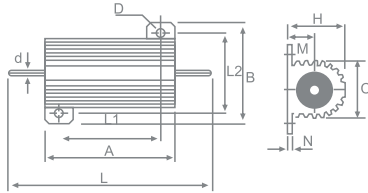
电阻 RESISTORS



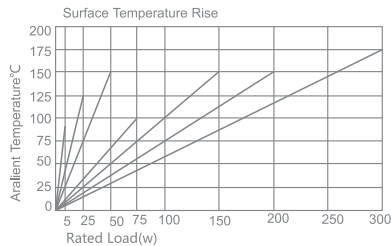
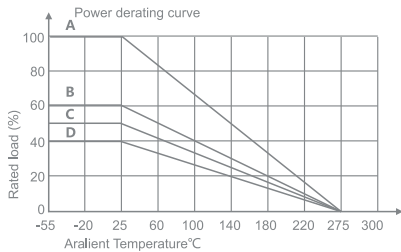
HIGHLIGHTS

- Aluminum chassis, easy to carry out the heat and easy to extra heat-sink
- Smaller package but high power handling
- Flexible leader
- TwoΦ4 mounting holes

CONSTRUCTION



CURVE DIAGRAM



RATING

TYPE	25°C	Dimensions (mm)						Thickness
		Amax	B	Lmax	Hmax	C	L1	
RX24	5W	15.5	16	36.5	8	8.5	11.4	1 mm
	10W	19.5	21	40.5	10	11.2	14	
	20W	27	27	48.0	13	14.3	18.3	
	30W	34	29	55	15.5	16.3	25	
	50W	50	29	71	15.5	16.3	40	

TYPE	25°C	Dimensions (mm)						Thickness
		L2	M	N	d	D	cm ²	
RX24	5W	12	4.4	1.5	1.5	2.2	415	1 mm
	10W	16	5	2	2	2.5	415	
	20W	20	7	2	2	3.5	535	
	30W	22	7.3	2	2	3.5	535	
	50W	22	7.3	2	2	3.5	995	

POWER CHARACTERISTIC

ITEM	25°C Rated Load (w)		Ω	△R	Temperature Coefficient	Dielectric Withstanding Voltage
	Radiating	No Radiating				
RX24	5	3	0.1-1k	± 1 ± 5	±50~±100	1000V
	10	8	0.01-1.5k			
	20	12.5	0.01-10k			
	30	15	0.01-27k			
	50	20	0.01-33k			

PERFORMANCE

TEST ITEM	SPECIFICATIONS	TEST METHOD
Solder ability	Same to SQP & SQZ	235°C± 5°C 2S
Robustness of terminations	$\Delta R \leq \pm(1\%R + 0.05\Omega)$	40N
Rapid change of temperature	$\Delta R \leq \pm(1\%R + 0.05\Omega)$	-55°C- 155°C 5 times
Overload	$\Delta R \leq \pm(1\%R + 0.05\Omega)$	Rated loadx10 5s
Constant damp heat	$\Delta R \leq \pm(5\%R + 0.1\Omega)$	40°C± 2°C 93% 2days
Shook	$\Delta R \leq \pm(1\%R + 0.05\Omega)$	490m/s ² 11ms 18 times
Vibrations	$\Delta R \leq \pm(1\%R + 0.05\Omega)$	10-50Hz 98m/s ² 6h
Endurance at room temperature	$\Delta R \leq \pm(5\%R + 0.1\Omega)$	Rated load at room temperature 1000h
Resistance to soldering heat	$\Delta R \leq \pm(1\%R + 0.05\Omega)$	350°C± 10°C 3.5± 0.5S
Surface temp rise	≤ 275 °C	Rated load

HVL CFC

铜箔线圈 COPPER FOIL COILS



The reproduction of music by coils made of solid metal foil (also referred to as ribbon coils) excels by extraordinary dynamics, unparalleled detail and holographic spatial quality and lowest distortions and discolorations - Even finest nuances are represented in a realistic manner.

Another remarkable feature is the high mechanical stability of these types. Due to the large contact surface between the individual windings and the viscoplasticity isolation of the polypropylene foil the oscillations of the individual windings are eliminated effectively. Foil coils have the lowest measured vibrations.

When using foil instead of wire for inductors, the enlarged surface will make for a much higher rate of electron travel.

The benefits from using foil inductors comes in the form of less distortion and higher dynamic headroom, when used on crossovers for modern high performance speakers.

HIGHLIGHTS

- PC-OCC copper (oxygen free) 无氧铜
- Pure copper foil with PP dielectric insulation 铜箔

HVL CFC
Copper Foil
Coils

SPK GUARD

保护模块

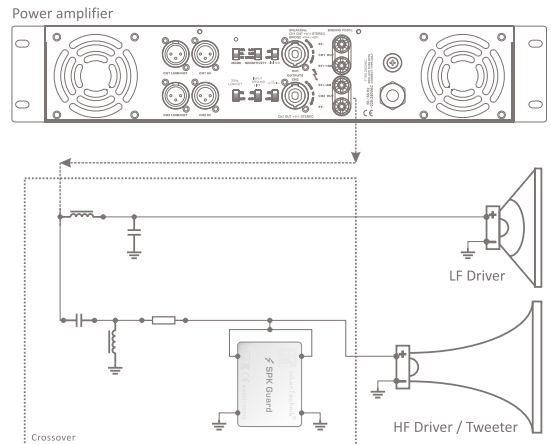


FEATURES AND DESIGN PHILOSOPHY

A sound system always the weak point is the HF drivers, any feedback, any wrong operation, microphone drop, any other accidents will cause the HF drivers damaged, in these cases we IT technik devolved a perfect solution to cover all these cases, it is SPK Guard!!! A lossless design, a fast limiting design, a compact design, a easy use design.

Metal chassis design gives the best cooling and sure face mount component will guarantee the stability and life longer.

Please refer to the following application drawing to get more details and will more easy to understand how it work.



SPK
GUARD

