

## GENERAL TECHNICAL CHARACTERISTICS 技术特性

Reference standards 参考标准	IEC 61071
Dielectric 介质材料	Polypropylene film
Construction 封装结构	Extended double side metallized carrier film with internal series connection and metallized film
Case 外壳材料	Solvent resistant plastic case with resin sealing. Flame retardant execution (UL94V-0).
Leads 引出端	Tinned copper lugs for screw fixing or soldering on PCBS

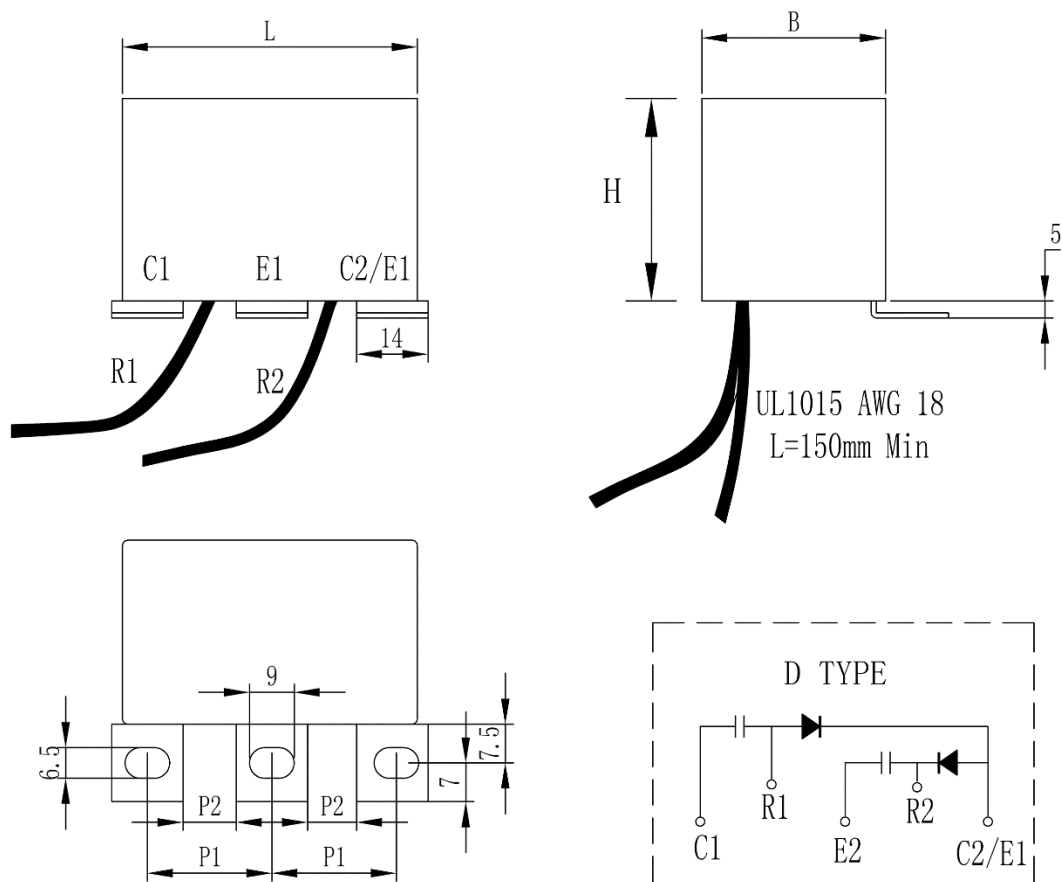
## ELECTRICAL CHARACTERISTICS 电气特性

Operating temperature 工作温度范围	- 40 to + 85 °C
Capacitance range 容量范围	0.047 to 3.5 μF
Rated voltage range 额定电压	600 / 1200 Vdc
Capacitance tolerance 容量偏差	± 10%
Self inductance 自感系数	≤1nH/mm of fixing pitch
Dissipation factor 损耗角正切	≤6.0×10 <sup>-4</sup> Measured at 100 Hz and 20±5°C
Life expectancy 预期寿命	100,000 hours at U <sub>NDC</sub> and 70 °C (Hot-spot temperature)

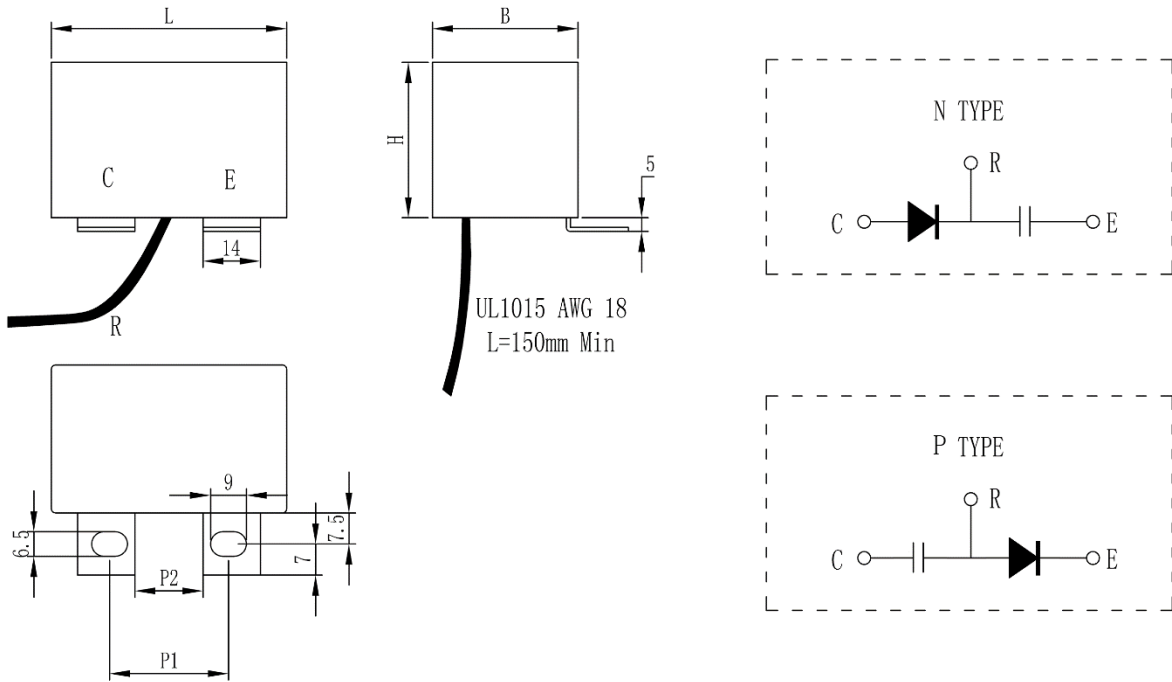
## TEST METHODS AND PERFORMANCES 测试方法

Dielectric strength 介质强度	2.0×U <sub>NDC</sub> applied to 10s at 20±5 °C
Insulation resistance(IR*C <sub>N</sub> ) 绝缘电阻	3000s but need not exceed 30GΩ, after 1 minute of electrification at 100VDC (20±5°C)

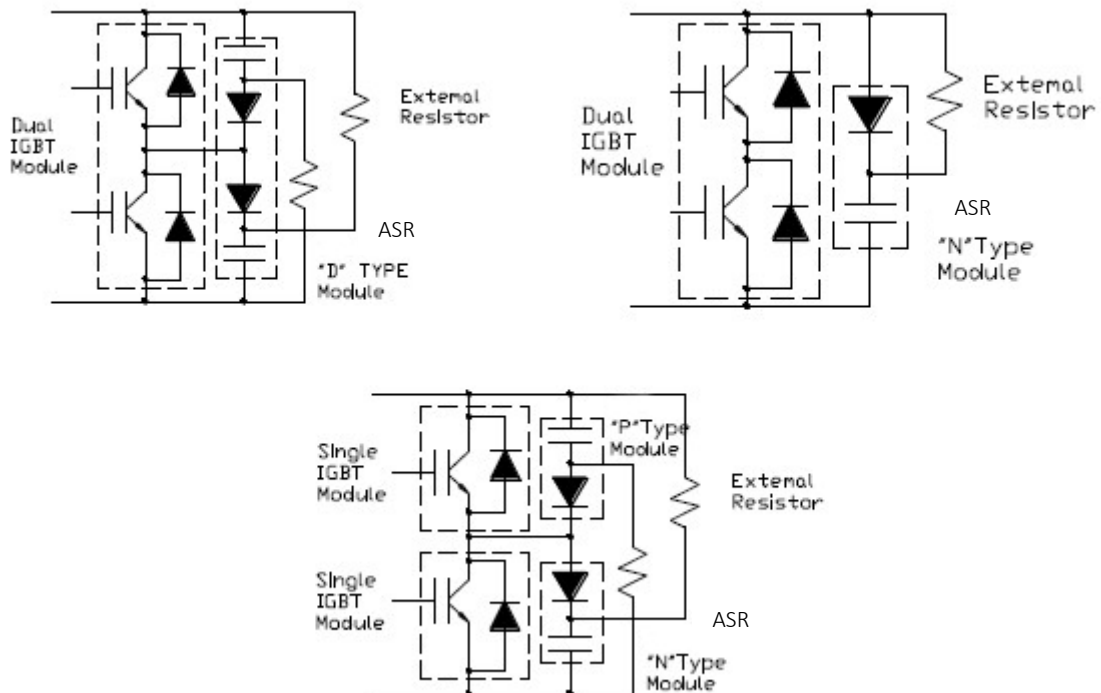
## OUTLINE DRAWING 外形图



OUTLINE DRAWING 外形图



Type	N		P		D	
	P2	P1	P2	P1	P2	P1
1	8	20-25	8	20-25	9	23-24
2	11	23-28	11	23-28	10	24-25
3	15	27-32	15	27-32	13	27-28



## HOW TO ORDER:

<u>K8R</u>	<u>122D</u>	<u>105</u>	<u>K</u>	<u>S</u>	<u>D</u>	<u>P</u>	<u>15</u>	<u>***</u>
Series Code:	Voltage:	Capacitance:	Cap. Tol.:	Shape:	Style:	Type:	Lug spacing	Internal
K8R:	101D: 100Vdc	104: 0.1μF	J: ± 5%,	S: Square	S: Single	N, P, D	P2:	Code
ASR Series	102D: 1000Vdc	105: 1.0μF	K: ± 10%		D: Dual		8, 9, 10, 11, 13, 15	

## ELECTRICAL SPECIFICATION 规格型号参考

Unit: mm

Part Number	Cap (μF)	Dimension			Type	IGBT Module			Diode				
		L	B	H		S=Sing D=Dual	Ic (A)	Vce (V)	If (A)	Trr (nS)	Vrrm (v)	Ipeak Surge (A)	Ipeak Rep (A)
<b>U<sub>Ndc</sub> 600Vdc</b>													
K8R601D474KSSP#***	0.47	42.5	22.0	30.0	P	S	200~300	600	30	40	600	300	70
K8R601D474KSSN#***	0.47	42.5	22.0	30.0	N	S	200~300	600	30	40	600	300	70
K8R601D105KSDP#***	1.0	42.5	28.0	37.0	P	D	100~200	600	50	45	600	500	100
K8R601D105KSDN#***	1.0	42.5	28.0	37.0	N	D	100~200	600	50	45	600	500	100
K8R601D105KSSP#***	1.0	42.5	28.0	37.0	P	S	300~400	600	50	45	600	500	100
K8R601D105KSSN#***	1.0	42.5	28.0	37.0	N	S	300~400	600	50	45	600	500	100
K8R601D155KSDP#***	1.5	42.5	30.0	45.0	P	D	200~300	600	50	45	600	500	100
K8R601D155KSDN#***	1.5	42.5	30.0	45.0	N	D	200~300	600	50	45	600	500	100
K8R601D205KSDP#***	2.0	42.5	33.0	45.0	P	S	400~600	600	100	50	600	1000	200
K8R601D205KSSN#***	2.0	42.5	33.0	45.0	N	S	400~600	600	100	50	600	1000	200
K8R601D205KSDP#***	2.0	42.5	33.0	45.0	P	D	300~400	600	100	50	600	1000	200
K8R601D205KSDN#***	2.0	42.5	33.0	45.0	N	D	300~400	600	100	50	600	1000	200
K8R601D355KSDP#***	3.5	57.5	35.0	50.0	P	D	400~600	600	100	50	600	1000	200
K8R601D355KSDN#***	3.5	57.5	35.0	50.0	N	D	400~600	600	100	50	600	1000	200
K8R601D474KSDD#***	0.47	57.5	30.0	45.0	D	D	50~100	600	30	40	600	300	70
K8R601D105KSDD#***	1.0	57.5	30.0	45.0	D	D	100~200	600	50	45	600	500	100
K8R601D155KSDD#***	1.5	57.5	35.0	50.0	D	D	200~300	600	50	45	600	500	100
K8R601D205KSDD#***	2.0	57.5	35.0	50.0	D	D	400~600	600	100	50	600	1000	200
<b>U<sub>Ndc</sub> 1200Vdc</b>													
K8R122D474KSSN#***	0.47	42.5	28.0	37.0	N	S	200~300	1200	30	65	1200	300	60
K8R122D474KSSP#***	0.47	42.5	28.0	37.0	P	S	200~300	1200	30	65	1200	300	60
K8R122D105KSDN#***	1.0	42.5	33.0	45.0	N	D	100~200	1200	50	85	1200	500	100
K8R122D105KSDP#***	1.0	42.5	33.0	45.0	P	D	100~200	1200	50	85	1200	500	100
K8R122D105KSSN#***	1.0	42.5	33.0	45.0	N	S	300~400	1200	50	85	1200	500	100
K8R122D105KSSP#***	1.0	42.5	33.0	45.0	P	S	300~400	1200	50	85	1200	500	100
K8R122D155KSDN#***	1.5	57.5	30.0	45.0	N	D	200~300	1200	50	85	1200	500	100
K8R122D155KSDP#***	1.5	57.5	30.0	45.0	P	D	200~300	1200	50	85	1200	500	100
K8R122D205KSSN#***	2.0	57.5	35.0	50.0	N	S	400~600	1200	100	90	1200	1000	200
K8R122D205KSSP#***	2.0	57.5	35.0	50.0	P	S	400~600	1200	100	90	1200	1000	200
K8R122D205KSDN#***	2.0	57.5	35.0	50.0	N	D	300~400	1200	100	90	1200	1000	200
K8R122D205KSDP#***	2.0	57.5	35.0	50.0	P	D	300~400	1200	100	90	1200	1000	200
K8R122D355KSDN#***	3.5	57.5	42.5	56.0	N	D	400~600	1200	100	90	1200	1000	200
K8R122D355KSDP#***	3.5	57.5	42.5	56.0	P	D	400~600	1200	100	90	1200	1000	200
K8R122D473KSDD#***	0.04	57.5	30.0	45.0	D	D	50~200	1200	30	65	1200	300	60
K8R122D224KSDD#***	0.22	57.5	30.0	45.0	D	D	50~150	1200	30	65	1200	300	60
K8R122D474KSDD#***	0.47	57.5	30.0	45.0	D	D	100	1200	30	65	1200	300	60
K8R122D105KSDD#***	1.0	57.5	35.0	50.0	D	D	150	1200	50	85	1200	500	100
K8R122D155KSDD#***	1.5	57.5	42.5	56.0	D	D	200	1200	100	90	1200	1000	200
K8R122D205KSDD#***	2.0	57.5	42.5	56.0	D	D	300	1200	100	90	1200	1000	200

Remark: 1. # P2; \*\*\* internal code.

2. Customization for special specification and requirement is available.