

KCB Series Thyristor Triggering Transformers

1. Features:

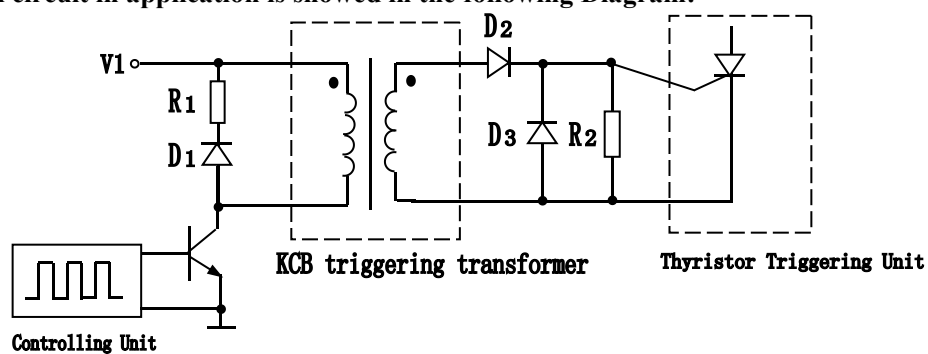
- ① Totally-encapsulated printed circuit board being able to be directly welded and assembled;
- ② High capability of mechanical and environmental isolation, compact in structure, solid, vibration-proof, moisture-proof and flame-resistance;
- ③ High dielectric strength between coils;
- ④ Ratio can be changed by customers to meet the requirement for triggering;
- ⑤ Able to match thyristors of all capacities;
- ⑥ Able to be used as common pulse transformers

2. Applications

The triggering transformer is used with thyristor. It is commonly connected in between controlled triggering unit and controlling grid of thyristor to transfer triggering pulse in thyristor equipment; and acts as a reliable isolator between high and low voltages. KCB Series triggering transformers can be used for the following equipment:

- ① Voltage and speed controlled equipment;
- ② Electric welding machine;
- ③ Elevator;
- ④ Power supply with intermediate frequency;
- ⑤ Rectifier;
- ⑥ Inverter frequency converter;
- ⑦ Self-controlled device;
- ⑧ Other thyristor device.

Typical circuit in application is showed in the following Diagram:



- Notes:
- 1. R1 and D1 act as current continuing components.
D1 normally is 1N4007, R1 is selected between $1K\ \Omega \sim 2K\ \Omega$;
 - 2. D2, D3, R2 act as shaping components.
D2, D3 can be 1N4007, R2 is optional from a few tens ohms to several hundreds ohms.

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3. Typical specifications of models are listed in the following table.

No.	Model	Ratio	$f_{udt} (\mu VS)$				Withstand Voltage	Dimension	Weight (g)	Page
			100HZ	3KHZ	7KHZ	10KHZ				
1	KCB472/104B	1:1:1	400	320	280	200	3.1KV	18×17×14	8.5	75
2	KCB472/065B	2.3:1	700	650	450	300	3.1KV	18×17×14	8.5	75
3	KCB472/951A	2:1	480	400	360	280	3.1KV	18×17×14	8.5	75
4	KCB421/097B	1:1:1	—	500	—	—	3.1KV	20×20×14	12	75
5	KCB421/301A	3:1	—	1440	—	—	3.1KV	20×20×14	12	75
6	KCB473/065B	2.3:1	—	700	—	—	3.1KV	17.6×18×14.6	10	76
7	KCB473/951A	2:1	—	480	—	—	3.1KV	17.6×18×14.6	10	76
8	KCB473/301A	3:1	—	1200	—	—	3.1KV	17.6×18×14.6	10	76
9	KCB473/101A	1:1	—	400	—	—	3.1KV	17.6×18×14.6	10	76
10	KCB473/104B	1:1:1	—	400	—	—	3.1KV	17.6×18×14.6	10	76
11	KCB473/211B	2:1:1	—	750	—	—	3.1KV	17.6×18×14.6	10	76
12	KCB421/311B	3:1:1	—	1200	—	—	3.1KV	17.6×18×14.6	10	76
13	KCB419/301A	3:1	3000	2000	1200	960	5.0KV	27×22×20.5	34	77
14	KCB419/201ATM	2:1	23KHz: 375				3.5KV	27×22×20.5	30	77
15	KCB-419/101S	1:1	1KHz: 1200				5KV	26×23.5×22	30	78
16	KCB419/111S	1:1:1	1KHz: 1200				5KV	26×23.5×22	30	78
17	KCB419/201S	2:1	1KHz: 2250				5KV	26×23.5×22	30	78
18	KCB419/211S	2:1:1	1KHz: 2250				5KV	26×23.5×22	30	78
19	KCB419/301S	3:1	1KHz: 3600				5KV	26×23.5×22	30	78
20	KCB419/311S	3:1:1	1KHz: 3600				5KV	26×23.5×22	30	78
21	KCB420/101A	1:1	1KHz: 800				5KV	21×19×17.5	35	79
22	KCB420/111B	1:1:1	1KHz: 800				5.0KV	21×19×17.5	35	79
23	KCB420/201A	2:1	1KHz: 1500				5.0KV	21×19×17.5	35	79
24	KCB420/211B	2:1:1	1KHz: 1500				5.0KV	21×19×17.5	35	79
25	KCB420/301A	3:1	1KHz: 2400				5.0KV	21×19×17.5	35	79
26	KCB420/311B	3:1:1	1KHz: 2400				5.0KV	21×19×17.5	35	79
27	KCB418/311B	3:1:1	4000	2400	1500	1200	3.1KV	35×30×20.5	41	80
28	KCB418/422B	2:1:1	—	1200	—	—	5.0KV	35×30×20.5	41	80
29	KCB418/317A	1.5:1	560	500	400	320	7.0KV	35×30×20.5	40	80
30	KCB418/503A	1.5:1	—	—	450	—	10KV	35×30×20.5	40	80
31	KCB04/301AM1	3:1	—	—	1680	—	10KV	35×30×20.5	40	80
32	KCB418/569	5:1	5000Hz: 240				6.0KV	35×30×20.5	40	81
33	KCB674/864A	2:1	1600	1000	400	300	5.0KV	23×16×23	19	81
34	KCB6743A	1:1	1600	1000	400	300	6.0KV	23×16×23	19	81
35	KCB674/211B	2:1:1	3000	2100	1500	900	3.0KV	23×16×23	19	82
36	KCB674/211B1	2:1:1	3000	2100	1500	900	3.0KV	23×16×23	19	82
37	KCB-02A1	1:1	300	240	200	200	4.5KV	27×22×20.5	20	82
38	KCB-02B1	1:1:1	300	240	200	200	4.5KV	27×22×20.5	20	82
39	KCB-02C	1:1:1:1	300	240	200	200	4.5KV	27×22×20.5	21	82
40	KCB-04A1	1:1	1600	1200	800	400	4.5KV	35×30×20.5	39	83
41	KCB-04B1	1:1:1	1600	1200	800	400	4.5KV	35×30×20.5	40	83
42	KCB-04C	1:1:1:1	1600	1200	800	400	4.5KV	35×30×20.5	41	83
43	KCB-05A	1:1	2400	—	—	—	4.5KV	44×39×24	79	84
44	KCB-05A3	3:1	9.4KHz: 1200				8KV	44×39×24	79	84
45	KCB-05B	1:1:1	2400	—	—	—	4.5KV	44×39×24	81	84
46	KCB-05C	1:1:1:1	2400	—	—	—	4.5KV	44×39×24	83	84
47	KCB-06A	1:1	6480	—	—	—	3.1KV	48×43×30	116	85
48	KCB-06B	1:1:1	6480	—	—	—	3.1KV	48×43×30	118	85
49	KCB-06C	1:1:1:1	6480	—	—	—	3.1KV	48×43×30	120	85

Pulse Transformers (KCB Series)

(Continued):

No	Model	Ratio	$\int udt$ (μ VS)				Withstand Voltage	Dimension	Weight (g)	Page
			100HZ	3KHZ	7KHZ	10KHZ				
50	KCB2810G-1	1:1	—	1000	—	—	15KV	31×31×25.6	70	86
50	KCB2810G-2	2:1	—	—	1200	—	15KV	31×31×25.6	70	86
50	KCB2810G-3	3:1	—	—	1200	—	15KV	31×31×25.6	70	86
51	KCB2410G-1	1:1	3200	—	—	—	8KV	27×23.6×22	100	86
51	KCB2410G-2	2:1	6000	—	—	—	8KV	27×23.6×22	100	86
51	KCB2410G-3	3:1	9600	—	—	—	8KV	27×23.6×22	100	86
52	KCB0025/K101A	1:1	200Hz: 8500			—	2.0KV	26×22.5×23	40	87
53	KCB01/K202A	1:1	22500	—	—	—	3.5KV	31×28×25	75	87
54	KCB01/K201D	2:1	8000	—	—	—	5.0KV	31×28×25	75	87
55	KCB015/K201B	2:1	300Hz: 19200			—	8.0KV	30.5×27.5×31.25	100	88
56	KCB05/K101A	1:1	25000	—	—	—	8.3KV	45×37×33	195	88
57	KCB05/K201A	2:1	50000	—	—	—	8.3KV	45×37×33	195	88
58	SD-112AP	1:1:1	800	—	—	—	2.0KV	21×20.8×17.5	19	89
59	JPC50/20	2.5:1	200Hz: 960			—	6.0KV	26×22.5×23	40	89
60	NPC450/105	4.5:1	300Hz: 24000			—	6.0KV	30.5×27.5×31.25	195	90

4. Guide for use:

① First of all, the needed dielectric strength V_p is determined according to the system's working voltage V_0 (effective value). It can be selected with the recommended values listed in Table 1:

Table 1:

Working Voltage V_0	220V	380V	500V	800V	1100V
Dielectricity Strength V_p	1.9KV	3.1KV	4.5KV	6KV	8.3KV

② The model can be selected in accordance with product of volt-microsecond ($\int udt$) and frequency of triggering pulse. There is a rule for the selection, which is referred to that the known product of volt-microsecond of triggering pulse should be equal to or less than the rated that of KCB triggering transformers in related range of frequencies;

(a). For users who use single pulse of 50HZ as triggering signal: the type can be determined with the known product of volt-microsecond by following the rule mentioned above.

For example, if it is known that the triggering pulse voltage is 8V, the pulse width is 250 μ s, the product of volt-microsecond then is 2000 μ Vs ($\int udt=8\times 250=2000\mu$ Vs), the KCB-05 should be selected.

(b). For users who use pulse train (modulated pulse) as triggering signal: the selection should be made according to the parameters of modulated pulse.

Pulse Transformers (KCB Series)

For example, if it is known that the frequency of modulated pulse is 7KHz, the pulse amplitude is 10V, the product of volt-microsecond is then $800\mu\text{Vs}$ ($\int udt=10 \times 80=800\mu\text{Vs}$), the KCB-04 should be selected when $f_p=7\text{KHz}$.

(c). For users who don't know the parameters of triggering pulse: recommended model can be chosen from the table 2 as follows.

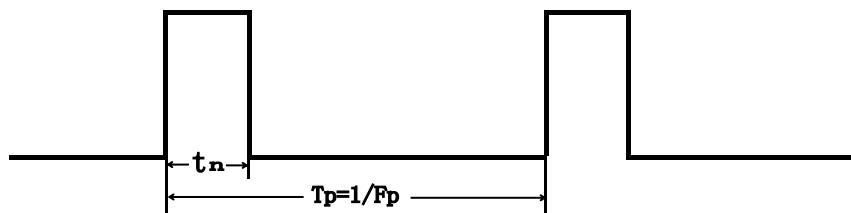
Table 2:

Thyristor capacity(A)	1-30	30-90	100-500	500-1000
Recommended Model	KCB-02	KCB472/104B KCB472/065B KCB472/951A	KCB-04 KCB674/864A KCB6743A KCB-0025 KCB-01	KCB418/311B KCB419/301A KCB674/211B KCB-05 KCB-06

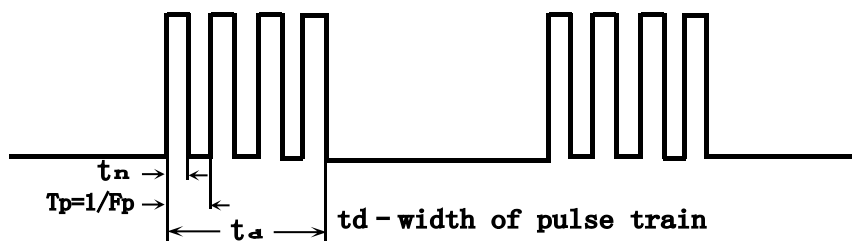
Note: Recommended model is only for reference. A triggering transformer with the bigger $\int udt$ should be selected as a general rule to make allowance.

5. Triggering Pulse Mode

(1). Single Pulse:



(2). Pulse Train



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6. Outline, Installation Dimension, Coil Diagram and Detailed Technical Parameters

◆ Instructions:

①. The parameters in the following tables are the typical values given at room temperature.

②. The meaning of the parameters:

u - transformer ratio = I : II : III : IV

V_P - effective voltage value of testing dielectric strength imposed on between coils, its duration is 60 seconds.

F_P - testing pulse frequency (T_p: cycle time). 100Hz is referred to single pulse, the others referred to pulse train, assuming that width of pulse train (equivalent width) is $t_d=2ms$

∫udt - rated product of volt-microsecond $\approx V_1 \cdot t_n$, which basically dose not change in certain range of frequencies

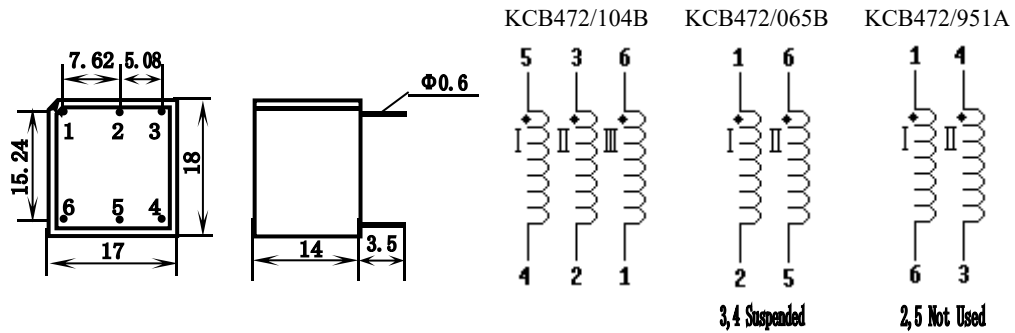
V₁ - input pulse amplitude (primary pulse voltage)

t_n - rated pulse width transferred under the related V₁ and f_p

V₂ - output pulse amplitude (secondary pulse voltage)

Pulse Transformers (KCB Series)

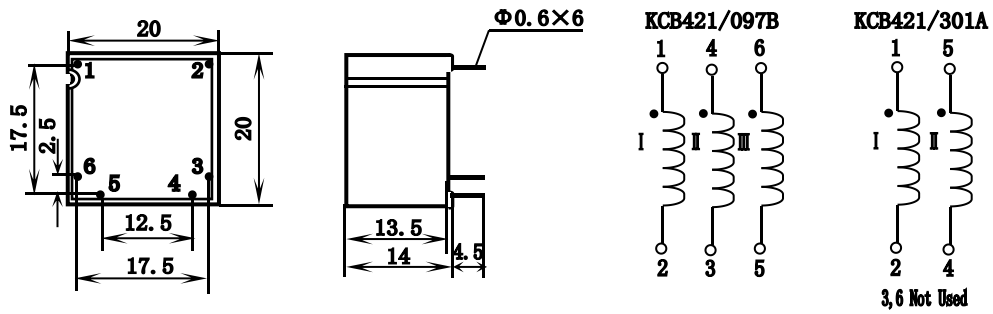
1. KCB472/104B 2. KCB472/065B 3. KCB472/951A



Model	u	V _p (KV)	Triggering Mode	F _p (HZ)	∫ udt (μ VS)	V ₁ (V)	t _n (μ s)	V ₂ (V)	R _L (Ω)			
KCB472/104B	1:1:1	3.1	Single Pulse	100	400	8	50	5.6	7			
			Pulse Train	3000	320					8	40	5.4
				7000	280						35	5
				10000	200						25	4.8
KCB472/065B	2.3:1	3.1	Single Pulse	100	700	10	70	4.2	7			
			Pulse Train	3000	650					10	65	4.2
				7000	450						45	4
				10000	300						30	3.8
KCB472/951A	2:1	3.1	Single Pulse	100	480	8	60	4	7			
			Pulse Train	3000	400					8	50	3.8
				7000	360						45	3.7
				10000	280						35	3.6

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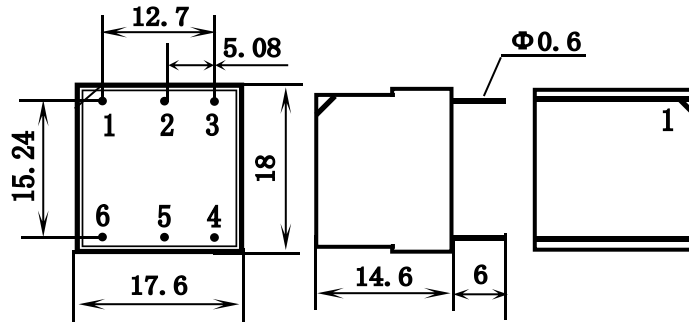
4. KCB421/097B 5. KCB421/301A



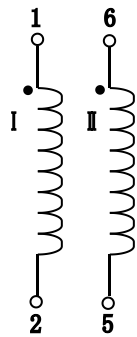
Model	u	V _p (KV)	Triggering Mode	F _p (HZ)	∫ udt (μ VS)	V ₁ (V)	t _n (μ s)	V ₂ (V)	R _L (Ω)
KCB421/097B	1:1:1	3.1	Pulse Train	3000	500	8	62.5	6.8	50
KCB421/301A	3:1	3.1	Pulse Train	3000	1440	24	60	6.5	7

Pulse Transformers (KCB Series)

6. KCB473/065B KCB473/951A KCB473/301A KCB473/101A KCB473/104B KCB473/211B KCB473/311B

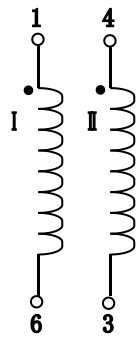


KCB473/065B



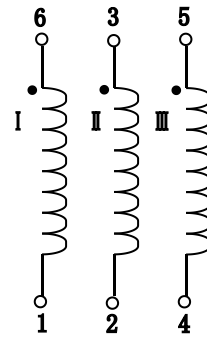
3, 4 Suspended

**KCB473/951A
KCB473/301A
KCB473/101A**



2, 5 Suspended

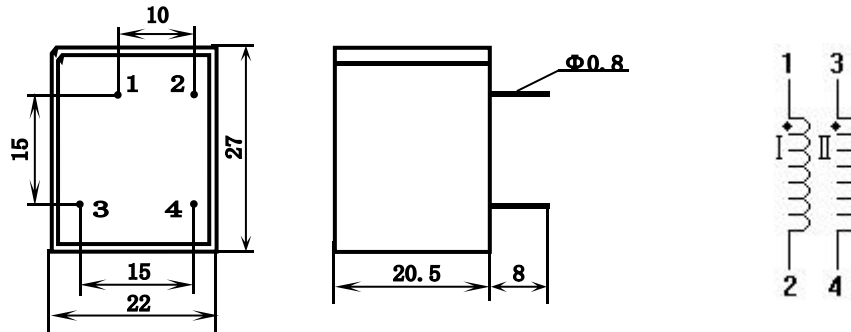
**KCB473/104B
KCB473/211B
KCB473/311B**



Model	u	V _p (KV)	Triggering Mode	F _p (HZ)	$\int udt$ (μ VS)	V ₁ (V)	tn (μ s)	V ₂ (V)	R _L (Ω)
KCB473/065B	2.3:1	3.1	Pulse Train	3KHz	750	15	50	5	50
KCB473/951A	2:1	3.1	Pulse Train	3KHz	480	8	60	3.8	50
KCB473/301A	3:1	3.1	Pulse Train	3KHz	1200	24	50	5	50
KCB473/101A	1:1	3.1	Pulse Train	3KHz	400	8	50	5	50
KCB473/104B	1:1:1	3.1	Pulse Train	3KHz	400	8	50	5.8	50
KCB473/211B	2:1:1	3.1	Pulse Train	3KHz	750	15	50	5	50
KCB473/311B	3:1:1	3.1	Pulse Train	3KHz	1200	24	50	5	50

Pulse Transformers (KCB Series)

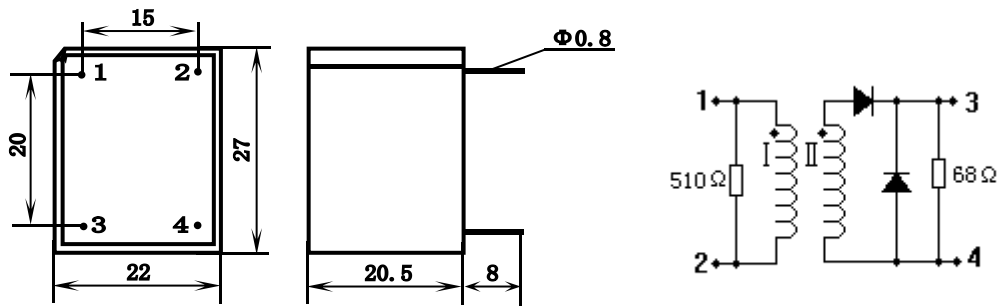
13. KCB419/301A



Model	u	V _p (KV)	Triggering Mode	F _p (HZ)	∫ udt (μ VS)	V ₁ (V)	t _n (μ s)	V ₂ (V)	R _L (Ω)
KCB419/301A	3:1	5	Single Pulse	100	3000	24	125	6.5	7
			Pulse Train	3000	2000		83.30	6.4	
				7000	1200		50	6.2	
				10000	960		40	6	

Pulse Transformers (KCB Series)

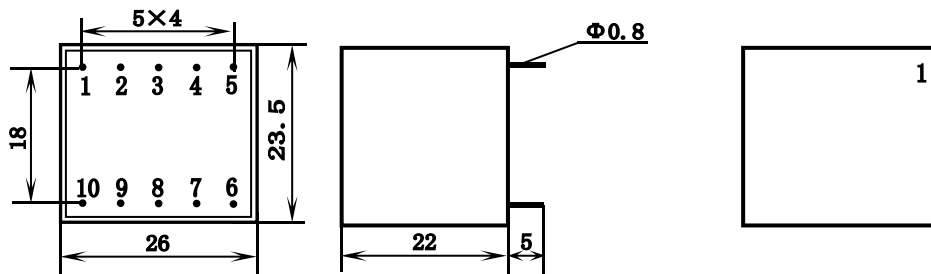
14. KCB419/201ATM



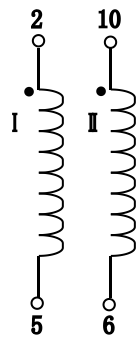
Model	u	V _p (KV)	Triggering Mode	F _p (HZ)	∫ udt (μ VS)	V ₁ (V)	tn (μ s)	V ₂ (V)	R _L (Ω)
KCB419/201ATM	2:1	3.5	Pulse Train	23000	375	15	25	6.5	7

Pulse Transformers (KCB Series)

15. KCB419/101S KCB419/111S KCB419/201S KCB419/211S KCB419/301S KCB419/311S

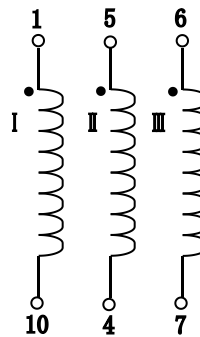


**KCB419/101S
KCB419/201S
KCB419/301S**



1, 3, 4, 7, 8, 9 Not Used

**KCB419/111S
KCB419/211S
KCB419/311S**

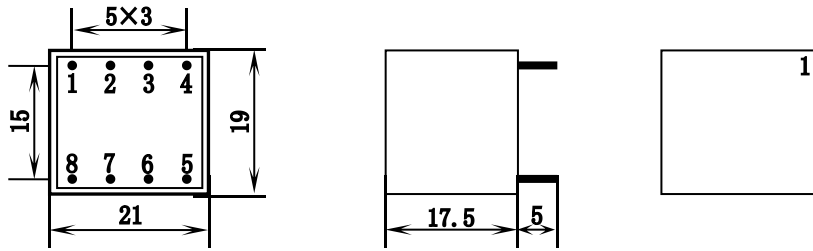


2, 3, 8, 9 Not Used

Model	u	V _p (KV)	Triggering Mode	F _p (HZ)	∫ udt (μ VS)	V ₁ (V)	tn (μ s)	V ₂ (V)	R _L (Ω)
KCB419/101S	1:1	5	Pulse Train	1K	1200	8	150	6	7
KCB419/111S	1:1:1	5	Pulse Train	1K	1200	8	150	5.8	7
KCB419/201S	2:1	5	Pulse Train	1K	2250	15	150	6	7
KCB419/211S	2:1:1	5	Pulse Train	1K	2250	15	150	5.8	7
KCB419/301S	3:1	5	Pulse Train	1K	3600	24	150	6	7
KCB419/311S	3:1:1	5	Pulse Train	1K	3600	24	150	5.8	7

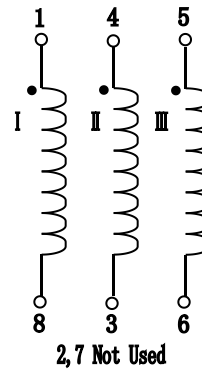
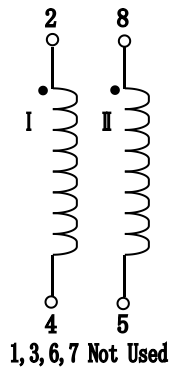
Pulse Transformers (KCB Series)

21. KCB420/101A KCB420/201A KCB420/301A KCB420/111B KCB420/211B KCB420/311B



**KCB420/101A
KCB420/201A
KCB420/301A**

**KCB420/111B
KCB420/211B
KCB420/311B**

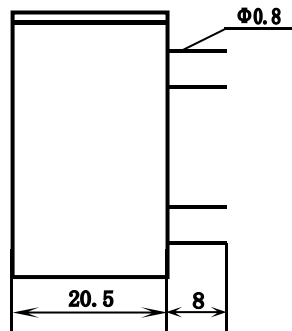
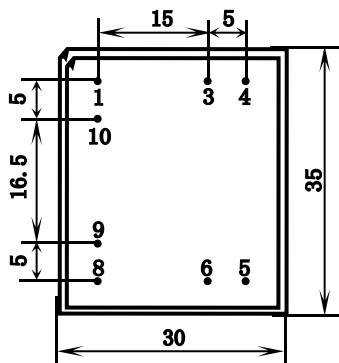


Model	u	V _p (KV)	Triggering Mode	F _p (Hz)	∫udt (μVS)	V ₁ (V)	tn (μs)	V ₂ (V)	R _L (Ω)
KCB420/101A	1:1	5.0	Single Pulse	100	1440	8	180	7.3	100
			Pulse Train	3000	960	8	120	7.2	
				7000	580		72.5	7	
				10000	464		58	6.8	
KCB420/111B	1:1:1	5.0	Single Pulse	100	750	8	93.75	6.5	7
			Pulse Train	3000	500	8	62.5	6.2	
				7000	300		37.5	6	
				10000	240		30	5.8	
KCB420/201A	2:1	5.0	Single Pulse	100	1280	15	85.3	6	7
			Pulse Train	3000	850	15	56.6	5.8	
				7000	500		33.3	5.7	
				10000	400		26.6	5.6	
KCB420/211B	2:1:1	5.0	Single Pulse	100	1000	15	66.6	5.8	7
			Pulse Train	3000	625	15	41.6	5.6	
				7000	420		28	5.5	
				10000	336		22.4	5.4	
KCB420/301A	3:1	5.0	Single Pulse	100	3000	24	125	6.5	7
			Pulse Train	3000	2000	24	83.3	6.4	
				7000	1200		50	6.2	
				10000	960		40	6	
KCB420/311B	3:1:1	5.0	Single Pulse	100	2000	24	133.3	6	7
			Pulse Train	3000	1300	24	86.6	5.8	
				7000	780		52	5.7	
				10000	620		41.3	5.6	

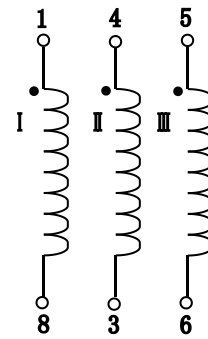
Pulse Transformers (KCB Series)

27. KCB418/311B

KCB418/422B



KCB418/311B
KCB418/422B



9, 10 Not Used

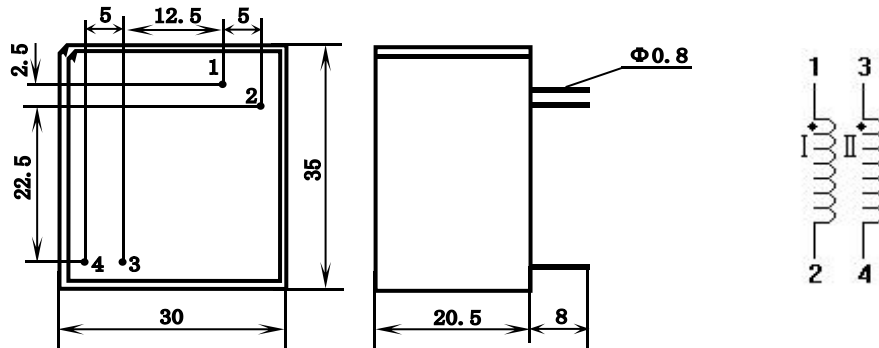
Model	u	V _p (KV)	Triggering Mode	F _p (HZ)	$\int udt$ (μ VS)	V ₁ (V)	t _n (μ s)	V ₂ (V)	R _L (Ω)
KCB418/311B	3:1:1	3.1	Single Pulse	100	4000	24	166	7	7
			Pulse Train	3000	2400		24	100	
				7000	1500	62.50		6.4	
				10000	1200	50		6.2	
KCB418/422B	2:1:1	5	Pulse Train	3000	1200	24	50	10	7

Pulse Transformers (KCB Series)

29. KCB418/317A

30. KCB418/503A

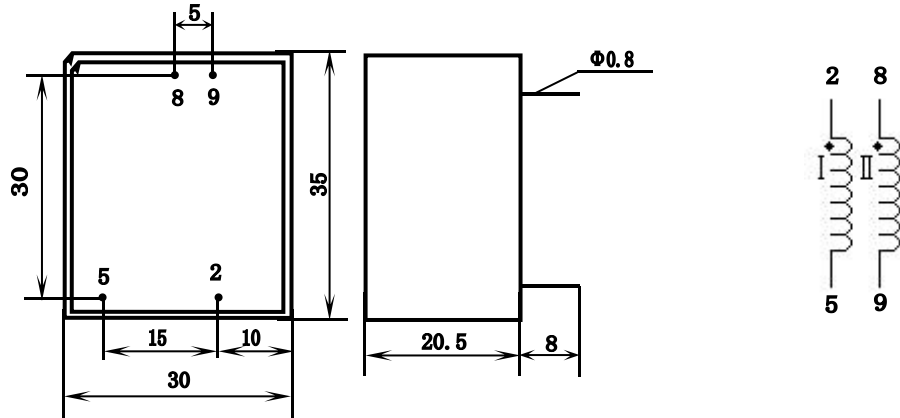
31. KCB04/301AM1



Model	u	V _p (KV)	Pulse Style	F _p (HZ)	f udt (μ VS)	V ₁ (V)	t _n (μ s)	V ₂ (V)	R _L (Ω)
KCB418/317A	1.5:1	7.0	Single Pulse	100	560	8	70	5.3	7
			Pulse Train	3000	500	8	62.50	5.2	
				7000	400		50	5	
				10000	320		40	5	
KCB418/503A	1.5:1	10	Pulse Train	7000	450	15	30	4	7
KCB04/301AM1	3:1	10	Pulse Train	7000	1680	24	70	8	100

Pulse Transformers (KCB Series)

32. KCB418/569

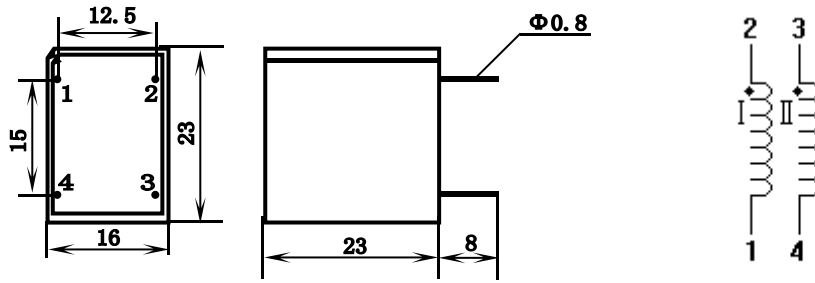


Model	u	V _p (KV)	Triggering Mode	F _p (HZ)	∫ udt (μ VS)	V ₁ (V)	t _n (μ s)	V ₂ (V)	R _L (Ω)
KCB418/569	5:1	6	Pulse Train	50000	240	24	10	4	7

Pulse Transformers (KCB Series)

33. KCB674/864A

34. KCB6743A

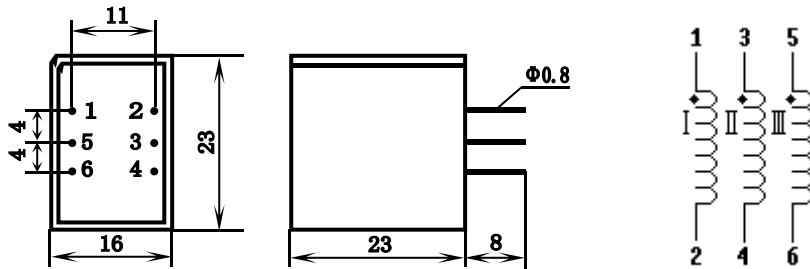


Model	u	V _p (KV)	Triggering Mode	F _p (HZ)	∫ udt (μ VS)	V ₁ (V)	t _n (μ s)	V ₂ (V)	R _L (Ω)
KCB674/864A	2:1	5.0	Single Pulse	100	1600	8	200	3.2	7
			Pulse Train	3000	1000		8	125	
				7000	400	50		3	
				10000	300	37.50		2.9	
KCB6743A	1:1	6.0	Single Pulse	100	1600	8	200	5.6	7
			Pulse Train	3000	1000		8	125	
				7000	400	50		4.6	
				10000	300	37.50		4.4	

Pulse Transformers (KCB Series)

35. KCB674/211B

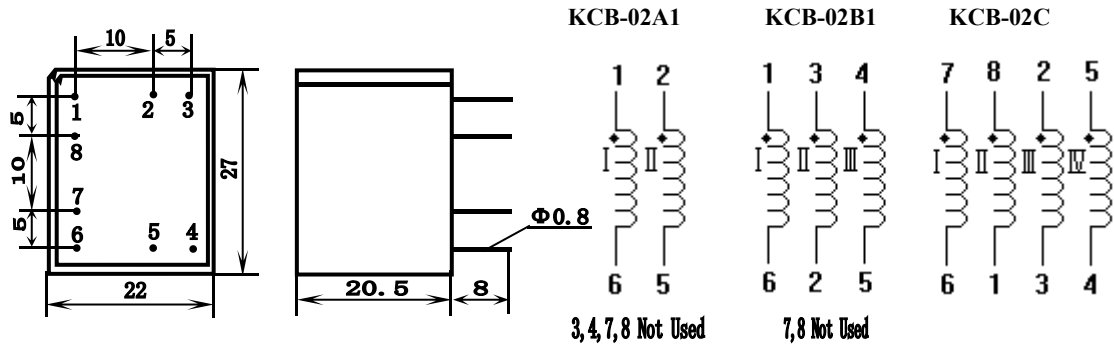
36. KCB674/211B1



Model	u	V _p (KV)	Triggering Mode	F _p (Hz)	∫ udt (μVS)	V ₁ (V)	tn (μs)	V ₂ (V)	R _L (Ω)
KCB674/211B	2:1:1	3.0	Single Pulse	100	3000	15	200	6.6	27
			Pulse Train	3000	2100		140	6.4	
				7000	1500	15	100	6	
				10000	900	60	5.8		
KCB674/211B1	2:1:1	3.0	Single Pulse	100	3000	15	200	6.6	27
			Pulse Train	3000	2100		15	140	
				7000	1500	100	6		
				10000	900	60	5.8		

Pulse Transformers (KCB Series)

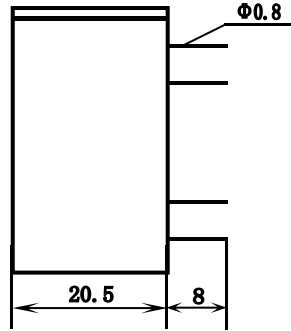
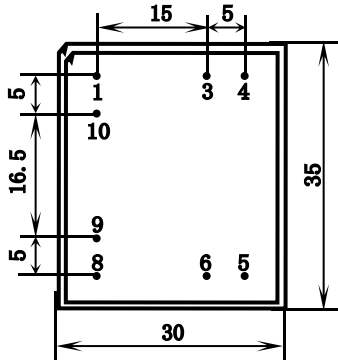
37. KCB-02A1 38. KCB-02B1 39. KCB-02C



Model	u	V _p (KV)	Triggering Mode	F _p (Hz)	∫ udt (μ VS)	V ₁ (V)	t _n (μ s)	V ₂ (V)	R _L (Ω)
KCB-02A ₁	1:1	4.5	Single Pulse	100	300	8	37.50	6.4	7
KCB-02B ₁	1:1:1			3000	240		30	6.2	
KCB-02C	1:1:1:1		Pulse Train	7000	200	8	25	5.9	
				10000	200		25	5.6	

Pulse Transformers (KCB Series)

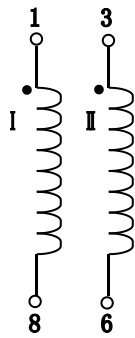
40. KCB-04A1 41. KCB-04B1 42. KCB-04C



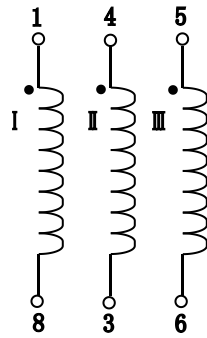
KCB-04A1

KCB-04B1

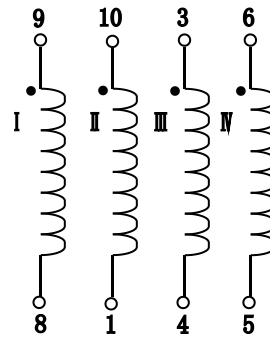
KCB-04C



4, 5, 9, 10 Not Used



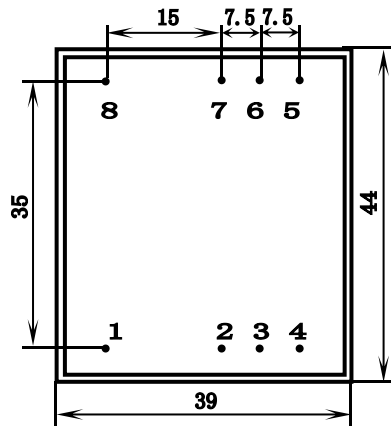
9, 10 Not Used



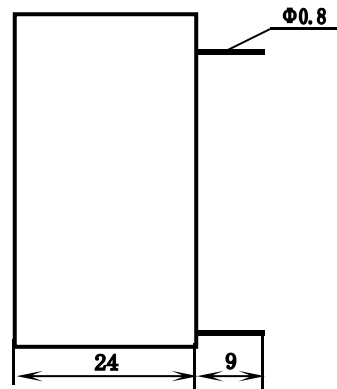
Model	u	V _p (KV)	Triggering Mode	F _p (HZ)	∫ udt (μ VS)	V ₁ (V)	t _n (μ s)	V ₂ (V)	R _L (Ω)
KCB-04A1 KCB-04B1 KCB-04C	1:1 1:1:1 1:1:1:1	4.5	Single Pulse	100	1600	8	200	6.2	7
			Pulse Train	3000	1200		8	150	
				7000	800	100		6	
				10000	400	50		5.8	

Pulse Transformers (KCB Series)

43. KCB-05A 44. KCB-05B 45. KCB-05C 46. KCB-05A3

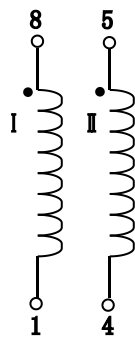


KCB-05A
KCB-05A3

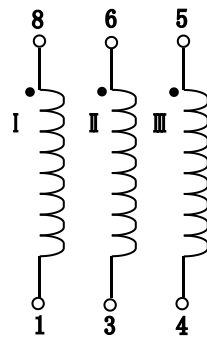


KCB-05B

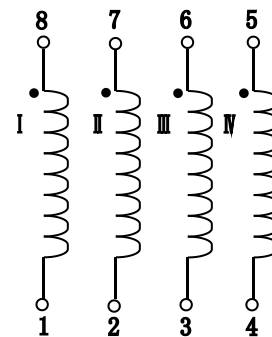
KCB-05C



2, 7 Not Used
3, 6 Suspended



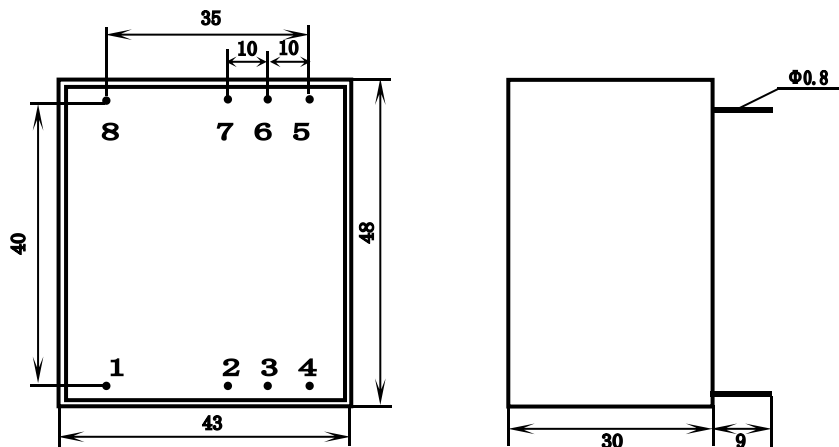
2, 7 Not Used



Model	u	V _p (KV)	Triggering Mode	F _p (HZ)	∫ udt (μ VS)	V ₁ (V)	t _n (μ s)	V ₂ (V)	R _L (Ω)
KCB-05A KCB-05B KCB-05C	1:1	4.5	Single Pulse	50	2500	8	312.50	6	7
	1:1:1		Pulse Train	100	2400	8	300	5.8	
	1:1:1:1			500	2000		250	5.8	
KCB-05A3	3:1	8.0	Pulse Train	9400	1200	24	50	6	7

Pulse Transformers (KCB Series)

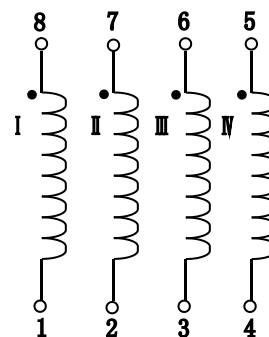
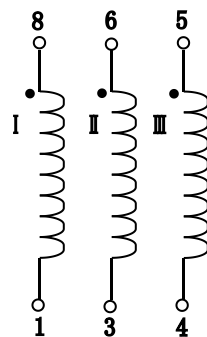
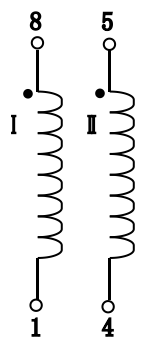
47. KCB-06A 48. KCB-06B 49. KCB-06C



KCB-06A

KCB-06B

KCB-06C



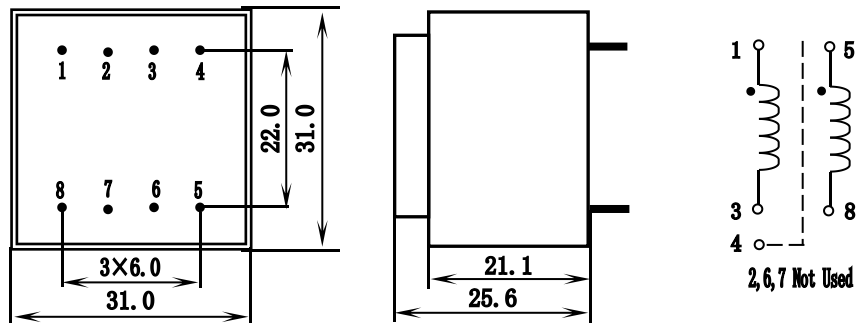
2, 7 Not Used
3, 6 Suspended

2, 7 Not Used

Model	u	V _p (KV)	Triggering Mode	F _p (HZ)	f udt (μ VS)	V ₁ (V)	t _n (μ s)	V ₂ (V)	R _L (Ω)
KCB-06A	1:1	3.1	Single Pulse	50	6800	8	850	6	7
KCB-06B	1:1:1		Pulse Train	100	6480	8	810	5.8	
KCB-06C	1:1:1:1			500	6080		760	5.8	

Pulse Transformers (KCB Series)

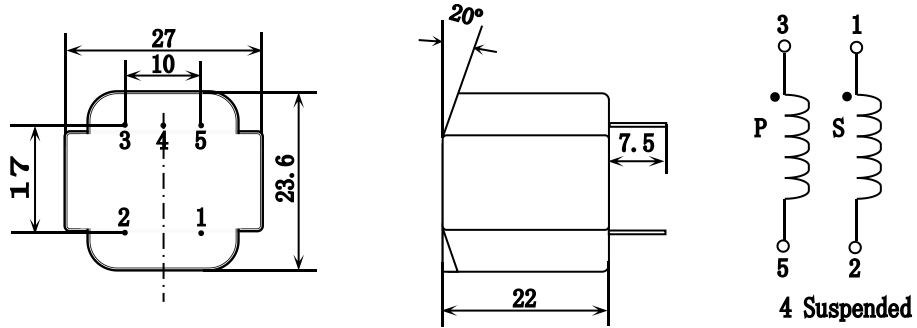
50. KCB2810G



Model	u	V _p (KV)	Triggering Mode	F _p (Hz)	∫ udt (μ VS)	V ₁ (V)	t _n (μ s)	V ₂ (V)	R _L (Ω)
KCB2810G-1	1:1	15	Pulse Train	3K	1000	10	100	9	7
KCB2810G-2	2:1	15	Pulse Train	10K	1080	15	72	7	7
KCB2810G-3	3:1	15	Pulse Train	7K	1200	24	50	7	7

Pulse Transformers (KCB Series)

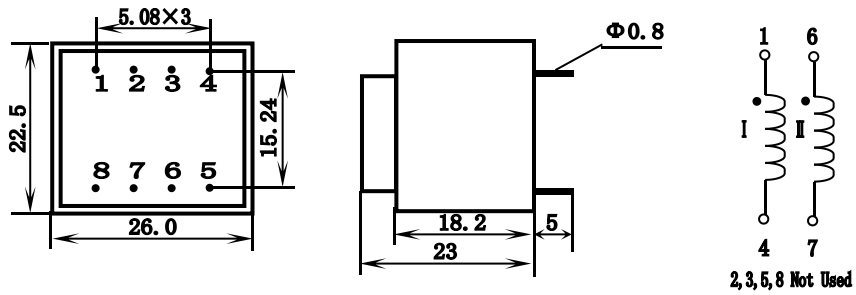
51. KCB2410G



Model	u	V _p (KV)	Triggering Mode	F _p (Hz)	$\int udt$ (μ VS)	V ₁ (V)	t _n (μ s)	V ₂ (V)	R _L (Ω)
KCB2410G-1	1:1	8	Single Pulse	100	3200	8	400	6	7
KCB2410G-2	2:1	8	Single Pulse	100	6000	15	400	6	7
KCB2410G-3	3:1	8	Single Pulse	100	9600	24	400	6	7

Pulse Transformers (KCB Series)

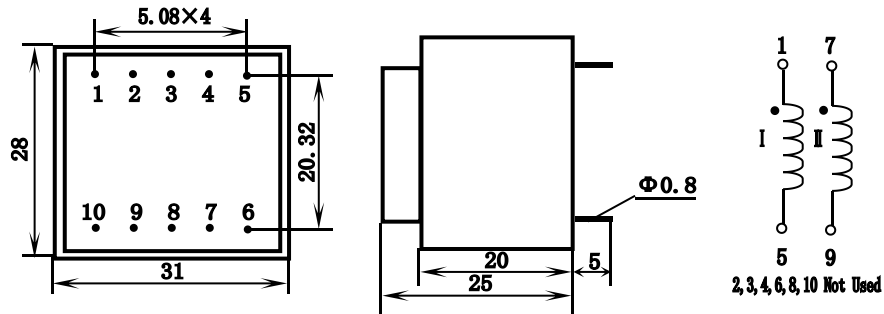
52. KCB0025/K101A



Model	u	V _p (KV)	Pulse Style	F _p (HZ)	$\int udt$ (μ VS)	V ₁ (V)	t _n (μ s)	V ₂ (V)	R _L (Ω)
KCB0025/K101A	1:1	2	Single Pulse	200	8500	10	850	9.5	100

Pulse Transformers (KCB Series)

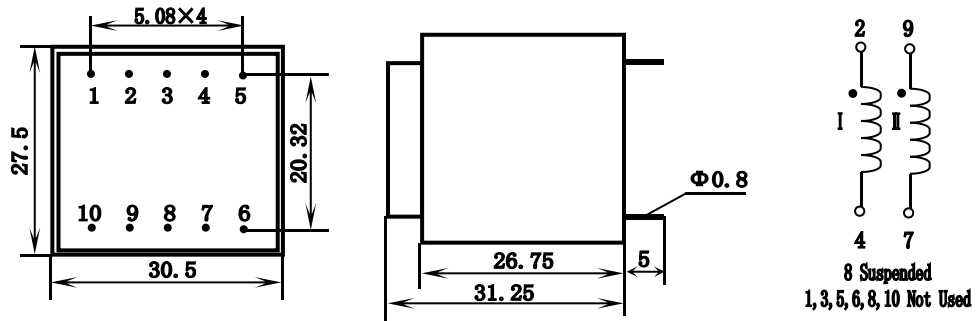
53. KCB01/K202A 54. KCB01/K201D



Model	u	V _p (KV)	Triggering	F _p (HZ)	∫ udt (μ VS)	V ₁ (V)	t _n (μ s)	V ₂ (V)	R _L (Ω)
KCB01/K202A	1:1	3.5	Single Pulse	100	22500	15	1500	10	100
KCB01/K201D	2:1	5	Single Pulse	100	8000	20	400	10	50

Pulse Transformers (KCB Series)

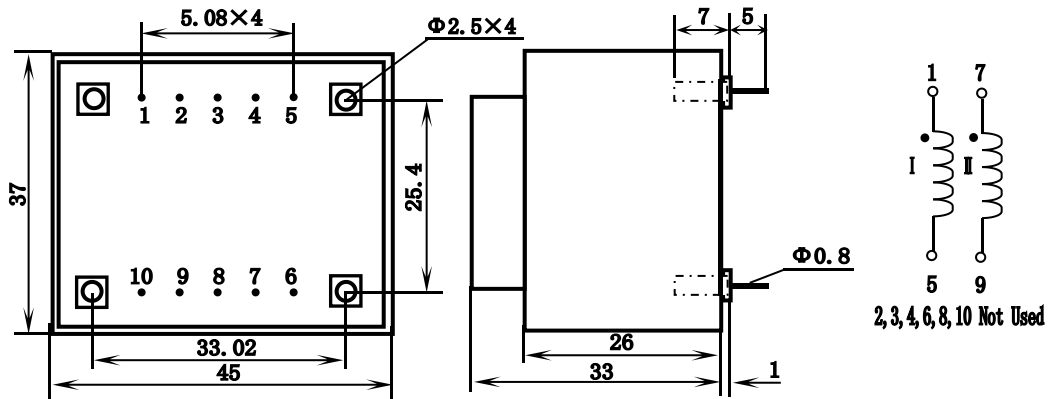
55. KCB015/K201B



Model	u	V _p (KV)	Triggering Mode	F _p (HZ)	f udt (μ VS)	V ₁ (V)	t _n (μ s)	V ₂ (V)	R _L (Ω)
KCB015/K201B	2:1	8	Single Pulse	300	19200	24	800	11	50

Pulse Transformers (KCB Series)

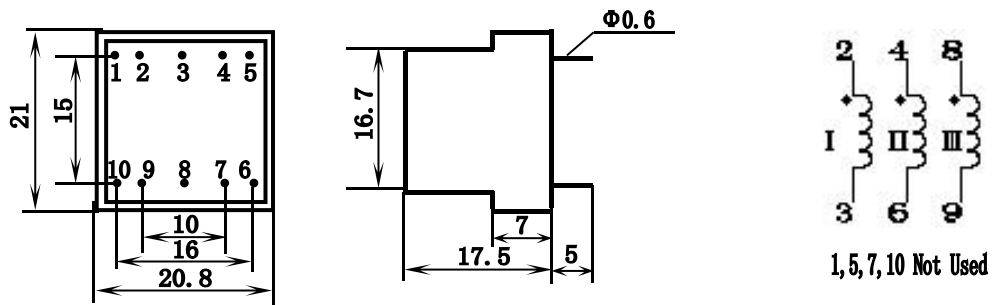
56. KCB05/K101A 57. KCB05/K201A



Model	u	V _p (KV)	Triggering Mode	F _p (HZ)	f udt (μ VS)	V ₁ (V)	t _n (μ s)	V ₂ (V)	R _L (Ω)
KCB05/K101A	1:1	8.3	Single Pulse	100	25000	8	3300	3.5	7
KCB05/K201A	2:1	8.3	Single Pulse	100	50000	8	6670	2.4	7

Pulse Transformers (KCB Series)

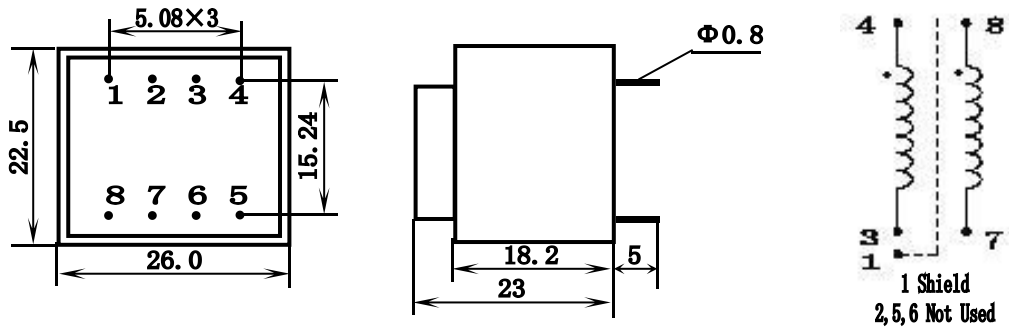
58. SD-112AP



Model	u	V _p (KV)	Triggering Mode	F _p (HZ)	f udt (μ VS)	V ₁ (V)	t _n (μ s)	V ₂ (V)	R _L (Ω)	Notes
SD-112AP	1:1:1	2.0	Single Pulse	100	≥ 800	8	≥ 100	6	7	Coil Inductance: \geq 10mH Coil Resistance: \leq 1.6 Ω

Pulse Transformers (KCB Series)

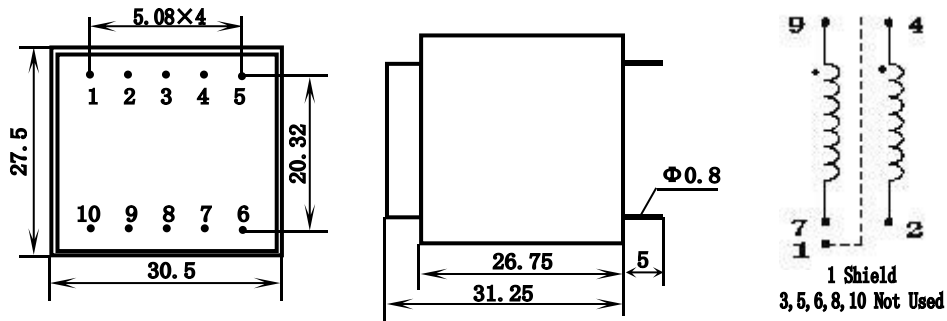
59. JPC50/20



Model	u	V _p (KV)	Pulse Style	F _p (HZ)	∫ udt (μ VS)	V ₁ (V)	t _n (μ s)	V ₂ (V)	R _L (Ω)
JPC50/20	2.5:1	6	Single Pulse	300	960	24	40	9	7

Pulse Transformers (KCB Series)

60. NPC450/105



Model	u	V _p (KV)	Triggering Mode	F _p (HZ)	f udt (μ VS)	V ₁ (V)	t _n (μ s)	V ₂ (V)	R _L (Ω)
KCB015/K201B	2:1	8	Single Pulse	300	19200	24	800	11	50
NPC450/105	4.5:1	6	Single Pulse	300	24000	24	1000	3.8	50