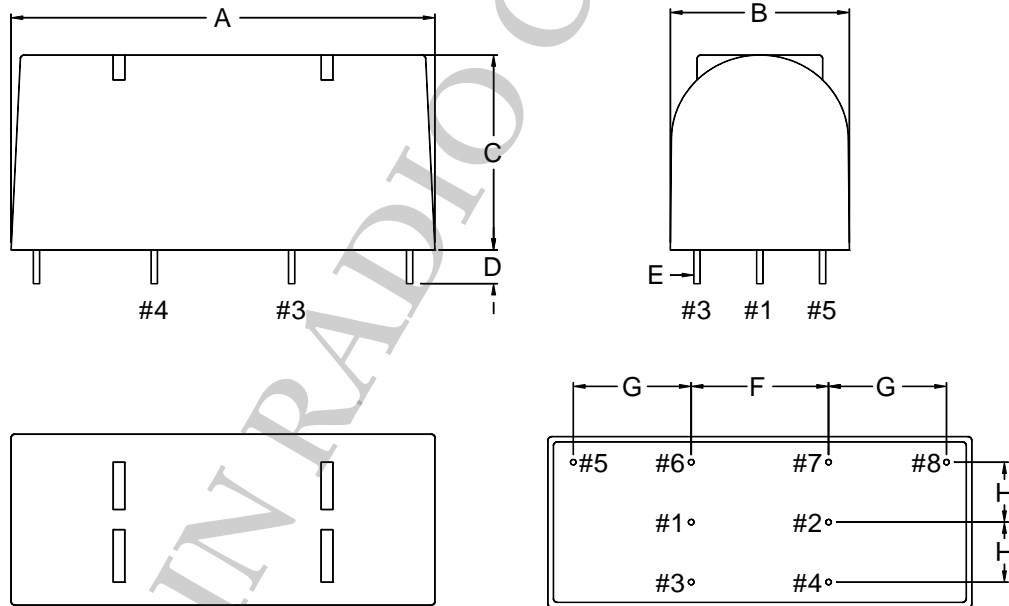




### TL433 Series

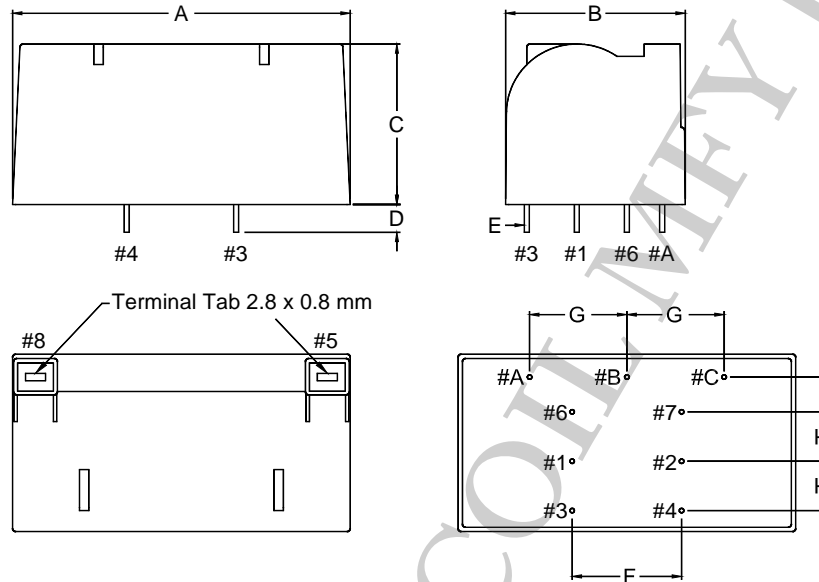
- All materials are designated under Insulation Class B (130°C)
- Dielectric strength - 4000V<sub>rms</sub>.
- Potted under vacuum.
- Ambient temperature: +70°C
- Operating frequency: Approx. 20 kHz.
- Output voltage:  $2x \geq 20kV$  p-p.
- Spark gap: 4 ~ 8 mm
- No-Load operation up to 30 sec.
- Terminals: PCB mounting and faston tab 2.8 x 0.8 mm

### TL433x-1zzz Series (PCB mounting)



	A	B	C	D	E	F	G	H	I	Weight (g)
<b>Dimension (mm)</b>	55.0	23.8	27.0	4.0	SQ0.64	17.5	15.0	8.0	--	72
<b>Tolerance (mm)</b>	max.	max.	max.	±1.0	±0.1	±0.2	±0.2	±0.5	--	approx.

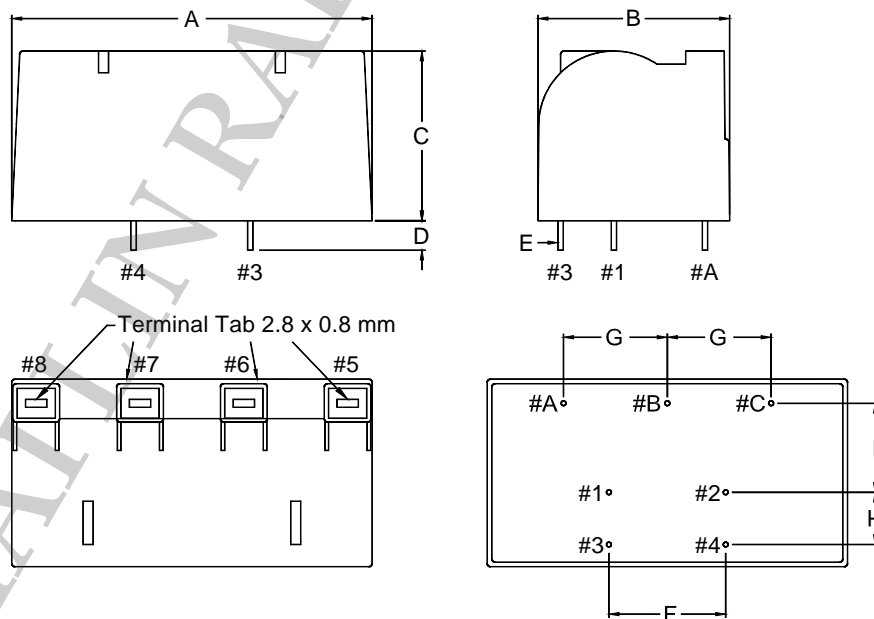
### TL433x-2zzz Series (with two faston tab outputs)



Note: #A,#B,#C are fixing pins if necessary

	A	B	C	D	E	F	G	H	I	Weight (g)
<b>Dimension (mm)</b>	55.0	29.7	27.0	4.0	SQ0.64	17.5	15.56	8.0	5.63	78
<b>Tolerance (mm)</b>	max.	max.	max.	±1.0	±0.1	±0.2	±0.2	±0.5	±0.5	approx.

### TL433x-3zzz Series (with four faston tab outputs)



Note: #A,#B,#C are fixing pins if necessary

	A	B	C	D	E	F	G	H	I	Weight (g)
<b>Dimension (mm)</b>	55.0	29.7	27.0	4.0	SQ0.64	17.5	15.56	8.0	13.63	80
<b>Tolerance (mm)</b>	max.	max.	max.	±1.0	±0.1	±0.2	±0.2	±0.5	±0.5	approx.

### Part Number Designation:

TL433x-yzzz

Where x = U series for 120V version  
E series for 230V version  
y = Case style (1, 2 or 3)  
zzz = Winding part number

### Example:

e.g. TL433U-1102

120V input and PCB mounting.

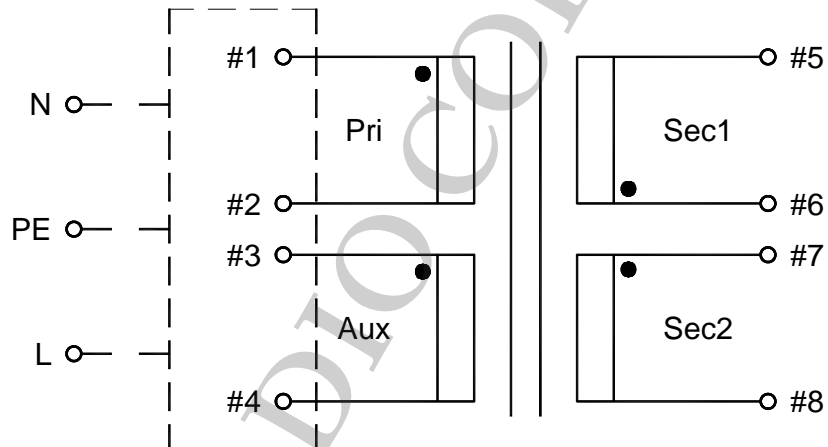
TL433E-2203

230V input and PCB mounting,  
With two faston tab output.

TL433U-3102

120V input and PCB mounting,  
With four faston tab output.

### Circuit diagram:



Winding P/N (zzz)	Primary		Turns Ratio	Spark Gap (mm)
	Inductance mH±20%	DC Resistance Ω±15%	Pri : Aux : Sec1 : Sec2	
101	1.06	0.506	125 : 18 : 2750 : 2750	4 ~ 8
102	1.06	0.506	125 : 18 : 3120 : 3120	4 ~ 8
103	1.06	0.506	125 : 18 : 3500 : 3500	4 ~ 8
104	1.06	0.506	125 : 18 : 4000 : 4000	4 ~ 8
201	4.56	2.16	260 : 10 : 2600 : 2600	4 ~ 8
202	4.56	2.16	260 : 10 : 3120 : 3120	4 ~ 8
203	4.56	2.16	260 : 10 : 3900 : 3900	4 ~ 8
204	4.56	2.16	260 : 10 : 4680 : 4680	4 ~ 8

Note: 1) Rated inductance is specified winding at 10kHz, 0.1V  
2) DC resistance is measured at 25°C, typical values.