

PULSE TRANSFORMERS

1- Order code designation system

PT - 27 A 10

Pulse transformer _____

Case size _____

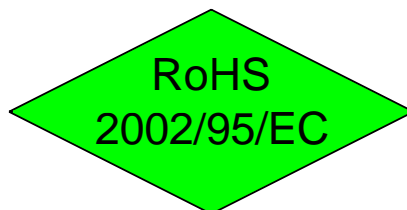
Winding ratio _____

A, I 1:1
B, K 1:1:1
C 2:1
D 3:1
E 3:1:1
F 4:1
G 2:1:1
H 1:1:1:1

Type number (approximate $\int Vdt$ value / 100) _____

2- Performance characteristics

Operating frequency	5 ~ 10 kHz
Operation temperature range	- 40 ~ + 85 °C
Storage temperature range	- 50 ~ 90 °C
Materials used	UL94V-0
Isolation test and pin distance according to	IEC 60664-1; VDE 0110-1
Products fulfill the requirements of	RoHS directive, 2002/95/EC



3- Electrical parameters description

N_p / N_s = Winding ratio

$\int Vdt$ = Voltage-time area

R_p = Primary winding resistance, measured at ambient temperature

R_s = Secondary winding resistance, measured at ambient temperature

L_p = Primary inductance, measured at 10kHz, 10mVac. Tolerance $\pm 30\%$

L_{ss} = Stray inductance, measured with all the secondaries shorted together at 10kHz, 10mVac

C_{ps} = Parasite capacitance between primary and secondary

I_M = Peak current

t_r = Rise time

R_L = Load resistance

V_{ww} = Working voltage

V_{isol} = Isolation test voltage (A.C. rms), measured at 50Hz, 1 minute
(100% testing at 50Hz, 2'')

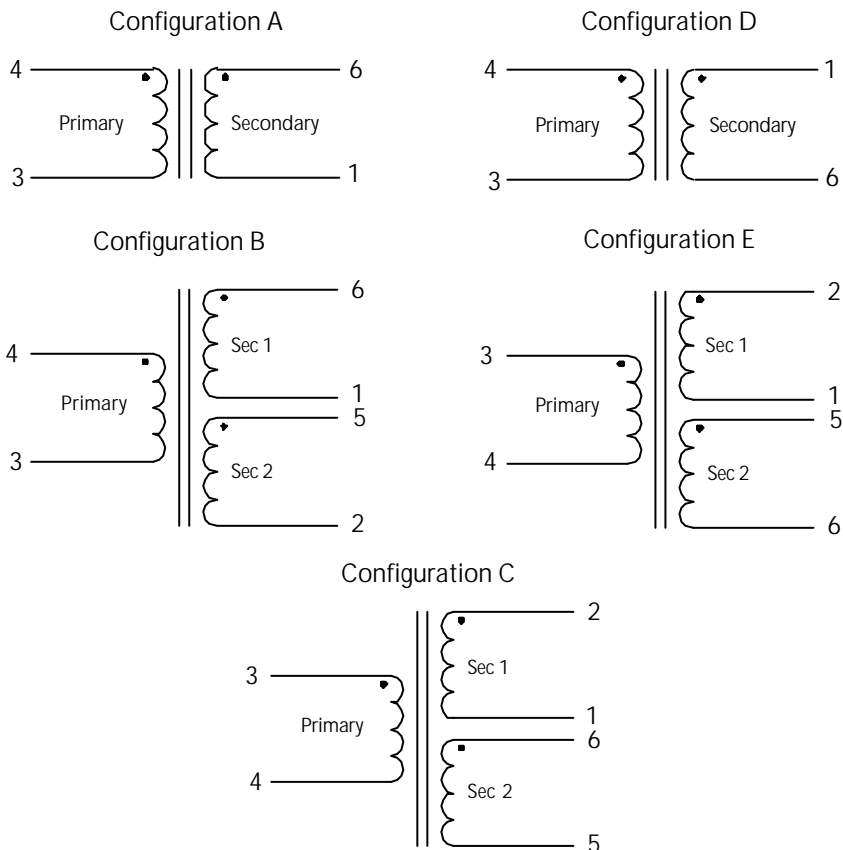
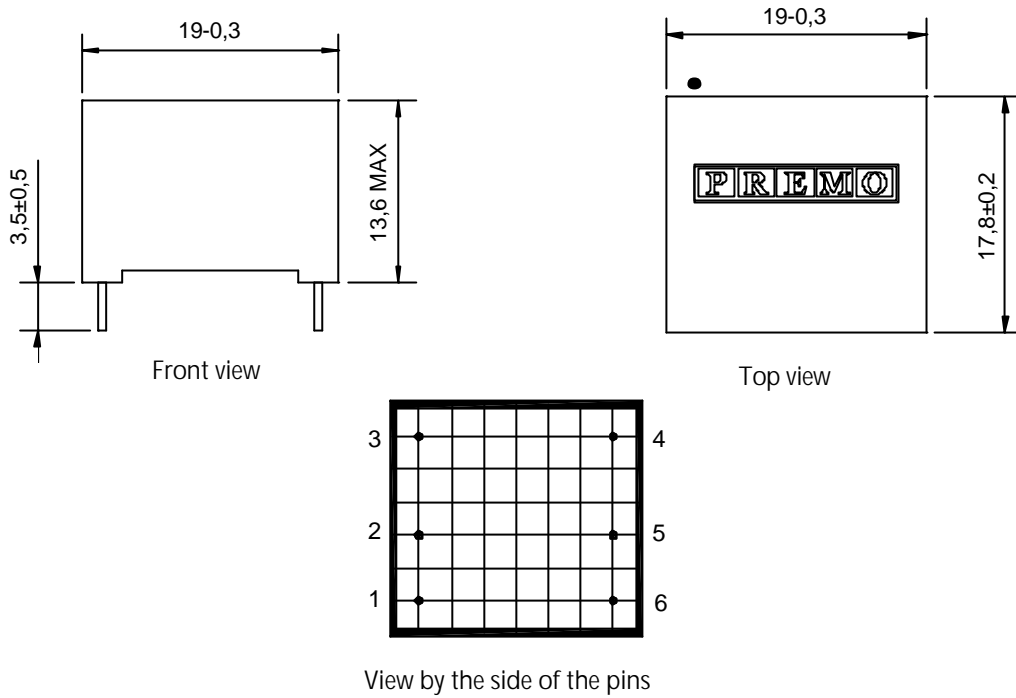
4- Pulse transformer types

Types	Np / Ns	$\dot{v} Vdt$ (μVs)	R _p MAX (W)	R _s MAX (W)	L _p (mH)	L _{ss} MAX (μH)	C _{ps} MAX (pF)	I _M (mA)	t _r (μs)	R _L (W)	V _{ww} (V)	V _{isol} P/S (kV)	V _{isol} S/S (kV)	Config
PT 14b2,5	1:1:1	250	0,9	0,9	1,7	5	45	200	1	50	500	4	3	B
PT 14k2,5	1:1:1	250	0,9	0,9	1,7	5	45	200	1	50	500	4	3	C
PT 14c2,5	2:1	250	1,8	0,9	6,7	15	45	200	1	50	500	4	-	D
PT 14a3	1:1	350	1,2	1,2	2,9	15	40	300	1	50	500	4	-	A
PT 14i3	1:1	350	1,2	1,2	2,9	15	40	300	1	50	500	4	-	D
PT 14g3	2:1:1	300	3,4	1,7	11,4	10	50	300	1	50	500	4	3	B
PT 14c3,5	2:1	350	3,5	2,4	14	25	45	300	1	50	500	4	-	D
PT 14i5	1:1	500	2,5	2,5	5,6	15	45	350	1	50	500	4	-	D
PT 14k6	1:1:1	600	2,8	2,8	9,7	10	45	400	1,2	50	500	4	3	C
PT 22a3	1:1	300	0,6	0,6	3	4,5	30	800	0,8	15	690	4	-	A
PT 22b3	1:1:1	300	0,6	0,6	3	2	40	800	0,8	15	690	4	4	B
PT 22c3	2:1	300	1	0,6	6	6,5	55	800	0,8	15	690	4	-	A
PT 22d3	3:1	300	1,5	0,6	26	15	65	800	0,8	15	690	4	-	A
PT 22e3	3:1:1	300	1,2	0,5	26	15	45	800	0,8	50	690	4	4	B
PT 22b4	1:1:1	400	0,8	0,8	5,5	2,5	55	800	1	15	690	4	4	B
PT 22a5	1:1	500	1	1	7,5	7	30	800	1	15	690	4	-	A
PT 22b5	1:1:1	500	1	1	7,7	3,5	45	800	1	15	690	4	4	B
PT 25j2	1:2:2	200	0,8	1,5	1,27	20	7,5	450	4	50	500	5	3,5	1-G
PT 25a3	1:1	300	0,5	0,5	2	3	50	250	1	50	500	4	-	1-A
PT 25b3	1:1:1	300	0,5	0,5	2	3	60	250	1	50	500	4	4	1-B
PT 25e3	3:1:1	300	1,7	0,55	15,8	15	55	250	1	50	500	4	4	1-B
PT 25h3	1:1:1:1	300	0,5	0,5	2	5	65	250	1	50	500	4	4	1-C
PT 25k3	1:1:1	300	0,5	0,5	2	3	60	250	1	50	650	4	4	1-E
PT 25m3	1:1	300	0,5	0,5	1,8	50	10	200	2	50	1000	6	-	1-F
PT 25n3	3:1	300	1,7	0,55	15,8	400	10	200	2	50	1000	6	-	1-F
PT 25p3	3:1:1	300	1,7	0,55	15,8	15	45	250	1	50	650	4	4	1-E
PT 25a4	1:1	400	0,6	0,6	4,2	3	70	300	1	50	500	4	-	1-A
PT 25b4	1:1:1	400	0,6	0,6	4,2	3	60	300	1	50	500	4	4	1-B
PT 25b4/hs	1:1:1	400	0,9	0,9	2,2	3	70	300	1	50	700	4	4	1-D
PT 25g4	2:1:1	400	1,7	1	12,3	250	8,5	200	4	50	500	5	3,5	1-G

4- Pulse transformer types (continued)

Types	Np / Ns	$\dot{v} Vdt$ (μVs)	R _p MAX (W)	R _s MAX (W)	L _p (mH)	L _{ss} MAX (μH)	C _{ps} MAX (pF)	I _M (mA)	t _r (μs)	R _L (W)	V _{ww} (V)	V _{isol} P/S (kV)	V _{isol} S/S (kV)	Config
PT 25a5	1:1	500	1	1	5,5	10	40	400	1	50	500	4	-	1-A
PT 25b5	1:1:1	500	1	1	5,5	5	50	400	1	50	500	4	4	1-B
PT 25m5	1:1	500	1	1	5,5	125	8	250	5	50	1000	6	-	1-F
PT 25o5	2:1	500	2	1	31,7	500	8,5	250	5	50	1000	6	-	1-F
PT 25b6/N	1:1:1	650	1	1	5,7	9	70	500	1	50	600	4	4	1-B
PT 25b8	1:1:1	800	1,7	1,7	13,5	10	70	600	1,5	50	500	4	4	1-B
PT 25b10	1:1:1	1000	1,8	1,8	18,3	18	55	700	1,5	50	500	4	4	1-B
PT 25b20	1:1:1	2000	6,8	6,8	56	65	70	800	2	50	500	4	4	1-B
PT 909	1:1	400	0,9	0,9	4,2	3	50	300	1	50	900	3	-	2-A
PT 26a3	1:1	300	0,55	0,55	2	5	50	250	1	50	500	4	-	A
PT 26b3	1:1:1	300	0,55	0,55	2	3	60	250	1	50	500	4	4	B
PT 26e3	3:1:1	300	1,8	0,5	14,7	18	50	250	1	50	500	4	4	B
PT 26b10	1:1:1	1000	2,3	2,3	18,3	18	50	700	2,5	50	500	4	4	B
PT 27a3	1:1	300	0,3	0,3	2	2	70	1200	1	10	690	4	-	A
PT 27b3	1:1:1	300	0,3	0,3	2	2	70	1200	1	10	690	4	4	B
PT 27d3,5	3:1	350	0,6	0,3	19,7	10	120	2000	1	5	690	4	-	A
PT 27e3,5	3:1:1	350	0,6	0,3	19,7	7	100	2000	1	5	690	4	4	B
PT 27b4/1300	1:1:1	450	0,15	0,15	0,55	2	40	2000	1	10	1300	6	5	B
PT 27a5	1:1	500	0,4	0,4	5	5	105	2000	1	10	690	4	4	A
PT 27b5	1:1:1	500	0,4	0,4	5	5	120	2000	1	10	690	4	4	B
PT 27a10	1:1	1000	0,4	0,4	2,2	5	160	2000	1,5	10	690	4	4	A
PT 27b10	1:1:1	1000	0,4	0,4	2,2	5	100	2000	1,5	10	690	4	4	B
PT 27b10ES	1:1:1	1000	0,5	0,5	2,2	20	60	2000	1,5	10	690	4	4	C
PT 27c10	2:1	1000	0,7	0,35	10	23	180	2000	1	10	690	4	4	A
PT HVb3	1:1:1	300	0,3	0,3	2,8	47	15	1000	1	50	3200	12	12	A

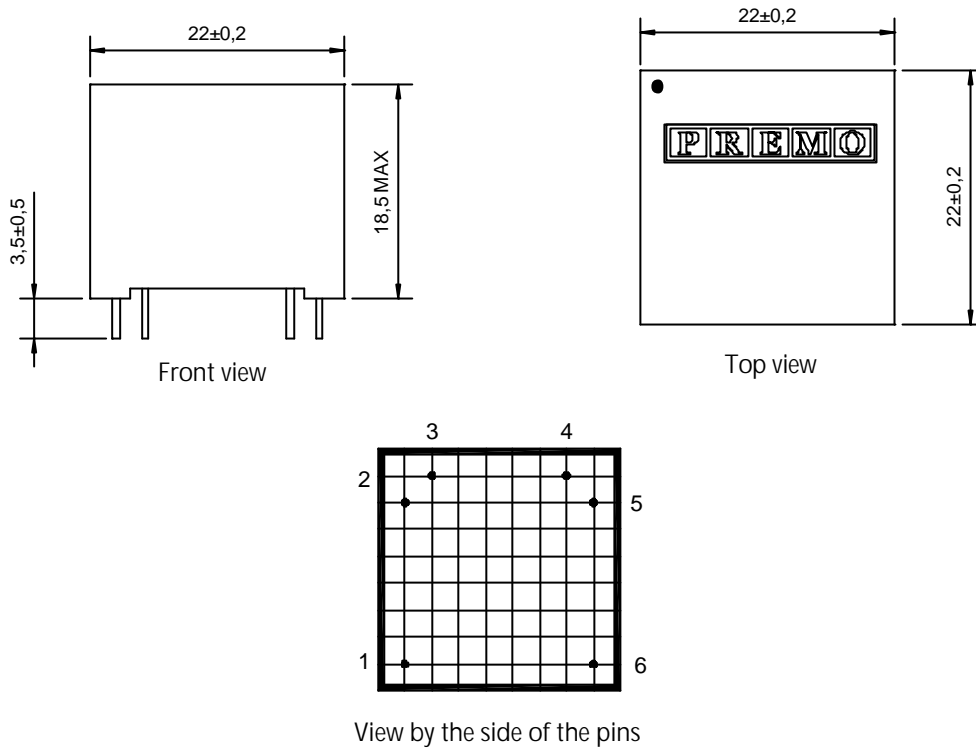
5- Winding Configurations and Dimensions



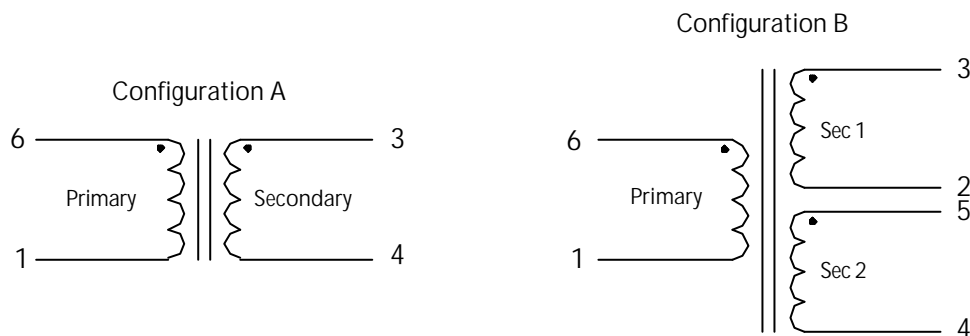
Notes:

All dimensions in mm; Pin diameter = 0,6mm typ; Pins with no connection are removed; Grid = 2,5mm unless otherwise indicated; Pin grid tolerance = ± 0,2mm; White dot on the top indicating pin number 1.

PT-14

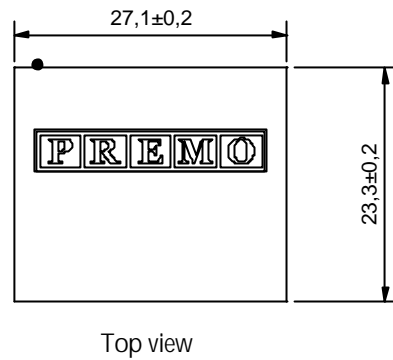
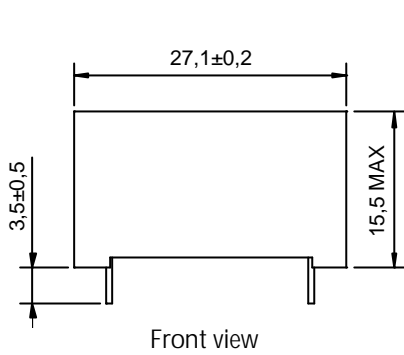


PT-22

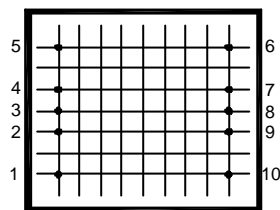


Notes:

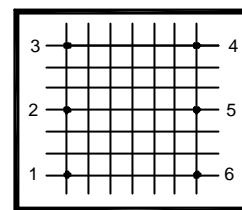
All dimensions in mm; Pin diameter = 0,6mm typ; Pins with no connection are removed; Grid = 2,5mm unless otherwise indicated; Pin grid tolerance = $\pm 0,2$ mm; White dot on the top indicating pin number 1.



1 - Configuration

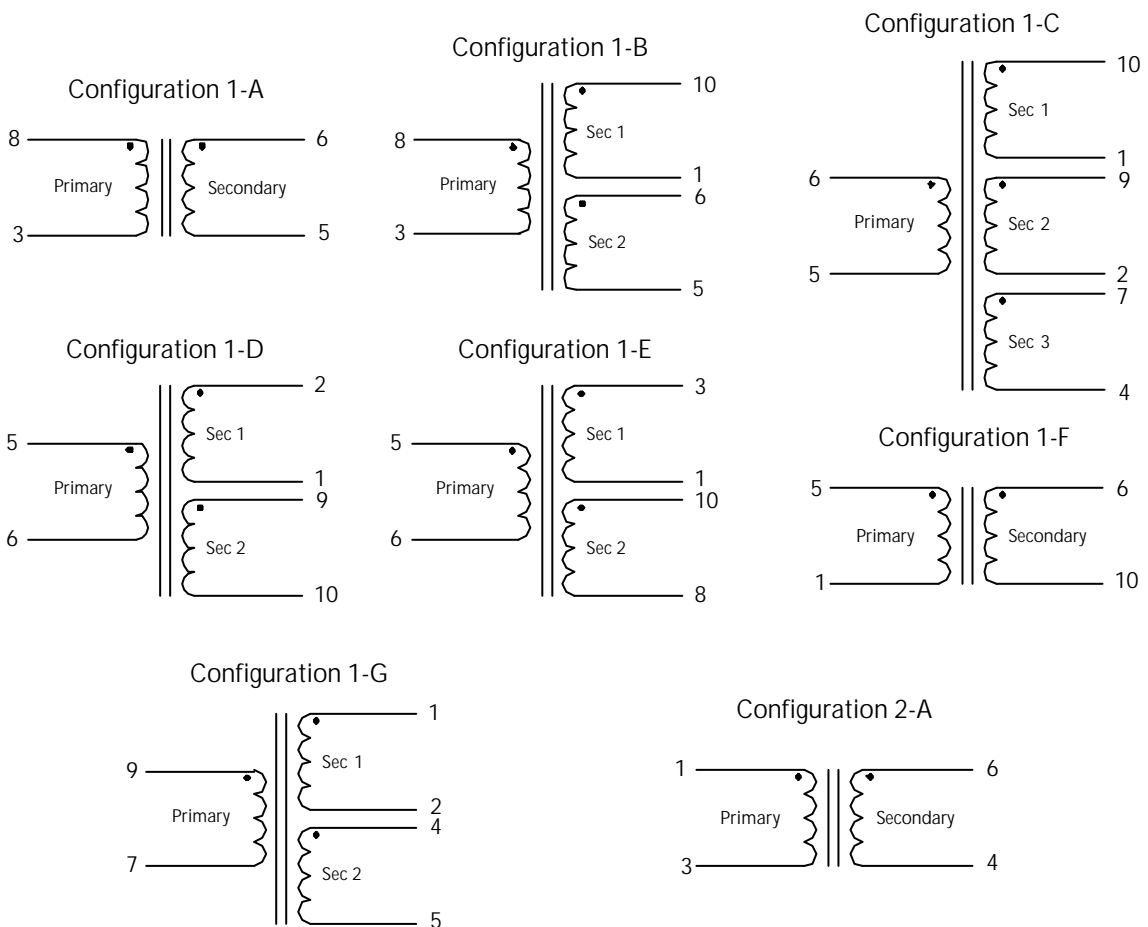


2 - Configuration
Special raster 2,54 mm



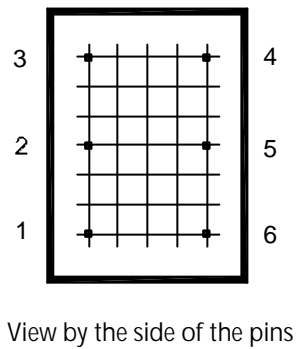
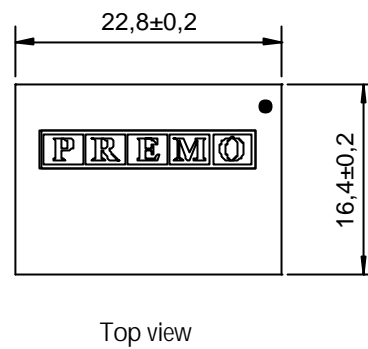
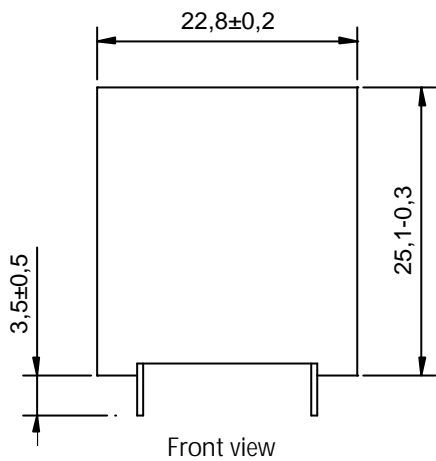
View by the side of the pins

PT-25

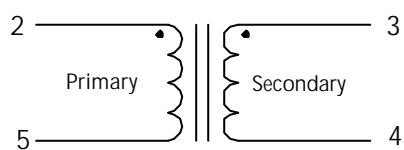


Notes:

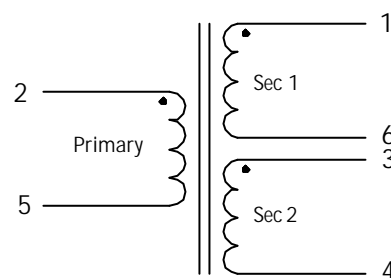
All dimensions in mm; Pin diameter = 0,6mm typ; Pins with no connection are removed; Grid = 2,5mm unless otherwise indicated; Pin grid tolerance = ± 0,2mm; White dot on the top indicating pin number 1.



Configuration A



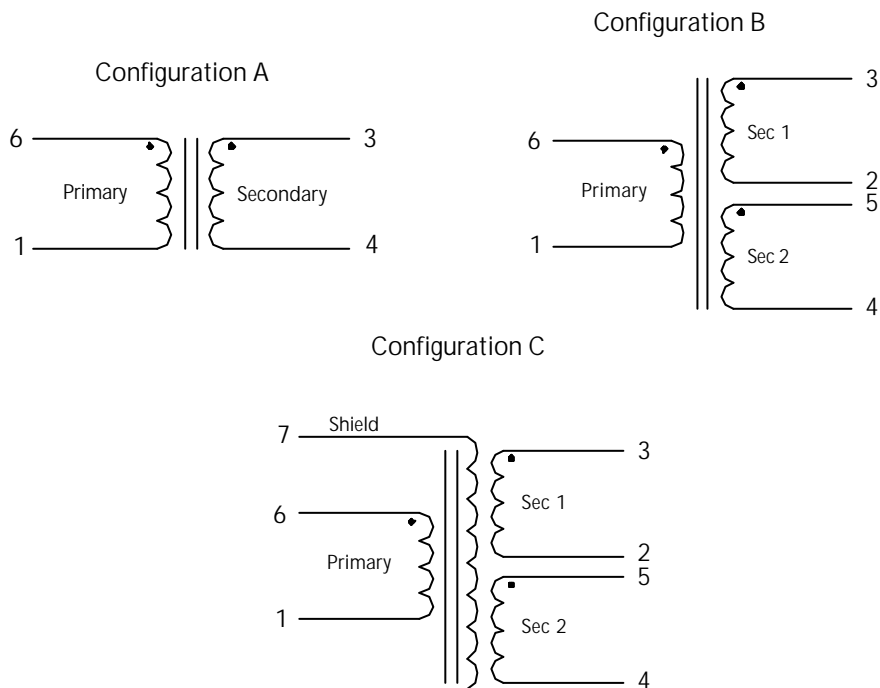
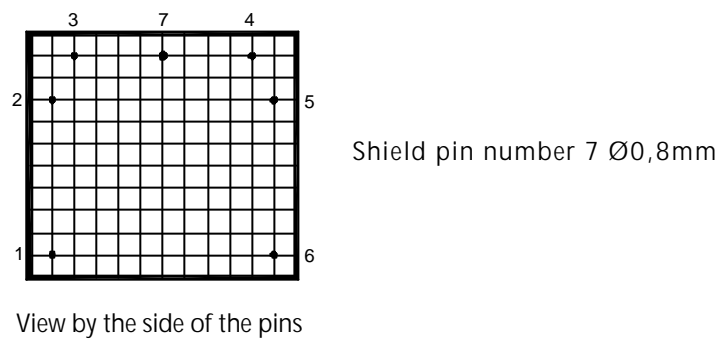
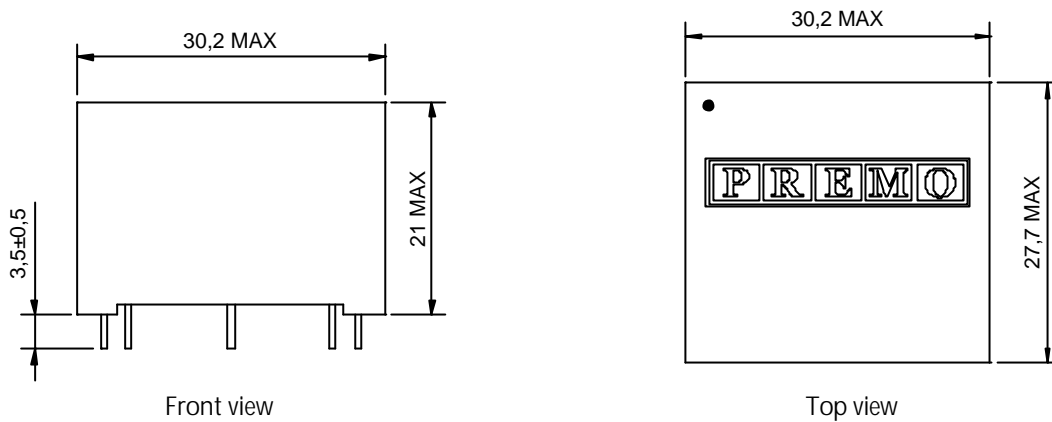
Configuration B



Notes:

All dimensions in mm; Pin diameter = 0,6mm typ; Pins with no connection are removed; Grid = 2,5mm unless otherwise indicated; Pin grid tolerance = ± 0,2mm; White dot on the top indicating pin number 1.

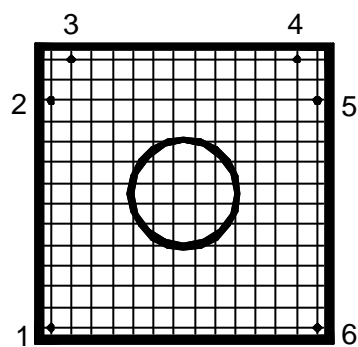
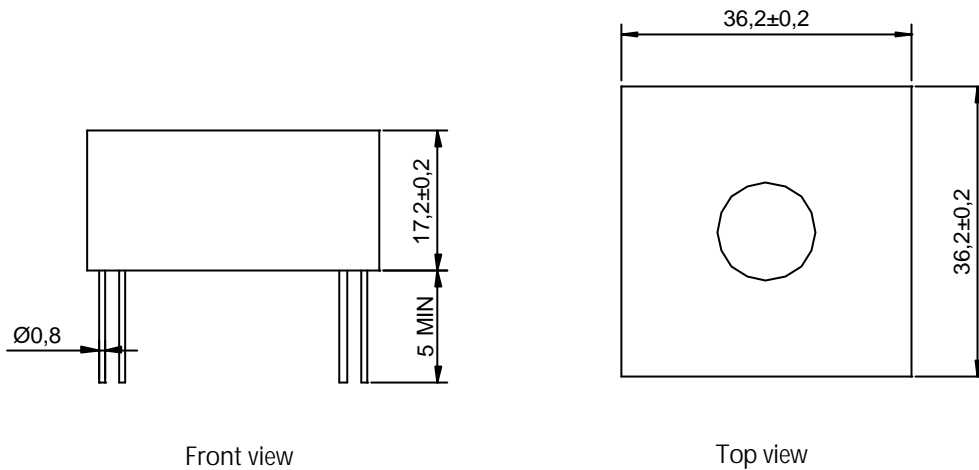
PT-26



Notes:

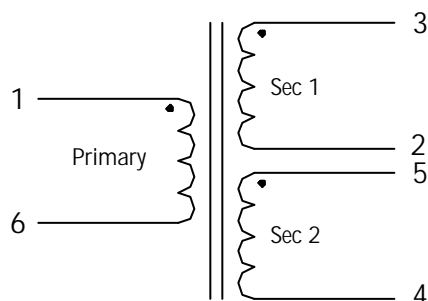
All dimensions in mm; Pin diameter = 0,6mm typ; Pins with no connection are removed; Grid = 2,5mm unless otherwise indicated; Pin grid tolerance = ± 0,2mm; White dot on the top indicating pin number 1.

PT-27



View by the side of the pins

Configuration A



PT-HV

Notes:

All dimensions in mm; Pin diameter = 0,6mm typ; Pins with no connection are removed; Grid = 2,5mm unless otherwise indicated; Pin grid tolerance = ± 0,2mm; White dot on the top indicating pin number 1.