

Transformers

Pulse Transformers

Pin Terminal

KP Series KP-27, -35, -51, -148 Types

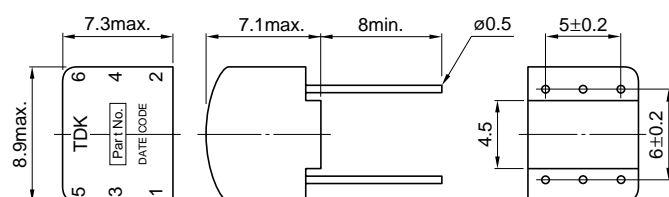
KP-27 TYPE

CHARACTERISTICS

Insulation resistance	100M Ω min.[DC.100V]
Withstand voltage Edc	100V
Maximum rated current	50mA
Temperature range	Operating 0 to +70°C
	Storage -40 to +100°C



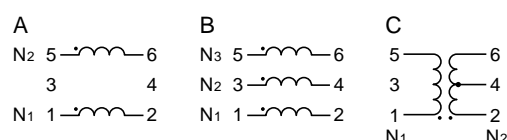
SHAPES AND DIMENSIONS



Weight: 0.9g typ.

Dimensions in mm

WINDING FORM AND PIN NUMBERINGS



ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio N ₁ :N ₂ :N ₃	Inductance N ₁ (μ H)min.	Leakage inductance N ₂ shorted (μ H)max.	Inter-winding capacitance N ₁ to N ₂ (pF)max.	DC resistance(Ω)max.				ET constant (V- μ s) min.
					N ₁	N ₂	N ₃	N ₄	
112A*1	1 : 1	1800	0.5	40	0.8	0.8	—	—	9
112A2	1 : 1	400	0.3	23	0.4	0.4	—	—	5
113B1	1 : 1 : 1	400	0.3	25	0.4	0.4	0.4	—	5
122A1	1 : 2	750	0.4	35	0.5	1	—	—	6
122A2	1 : 2	220	0.3	20	0.3	0.6	—	—	4
123B1	1 : 2 : 2	220	0.3	20	0.3	0.6	0.6	—	4
132A1	1 : 3	650	0.4	30	0.4	1.2	—	—	5.6
132A2	1 : 3	150	0.25	20	0.3	1	—	—	3
133B1	1 : 3 : 3	150	0.25	20	0.3	1	1	—	3
122C1	1 : 2CT	400	0.4	25	0.4	0.4	0.4	—	5
142C1	1 : 4CT	200	0.3	20	0.3	0.6	0.6	—	4
162C1	1 : 6CT	150	0.25	20	0.3	1	1	—	3

* Refer to Winding form and pin numberings.

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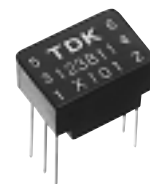
Pin Terminal

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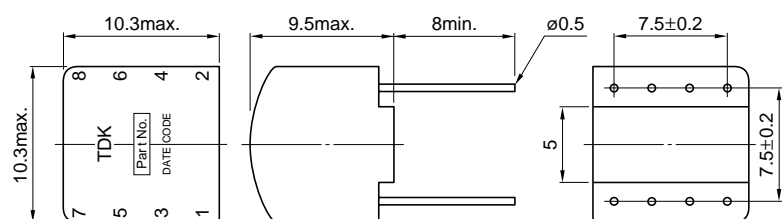
KP-35 TYPE

CHARACTERISTICS

Insulation resistance	100M Ω min.[DC.100V]	
Withstand voltage Edc	100V	
Maximum rated current	50mA	
Temperature range	Operating	0 to +70°C
	Storage	-40 to +100°C



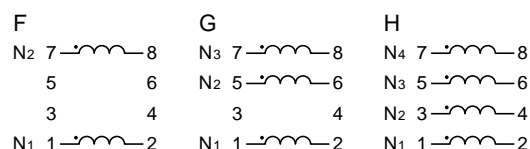
SHAPES AND DIMENSIONS



Weight: 1.8g typ.

Dimensions in mm

WINDING FORM AND PIN NUMBERINGS



ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio N ₁ :N ₂ :N ₃ :N ₄	Inductance N ₁ (μ H)min.	Leakage inductance N ₃ shorted (μ H)max.	Inter-winding capacitance N ₁ to N ₂ (pF)max.	DC resistance(Ω)max.				ET constant (V- μ s) min.
					N ₁	N ₂	N ₃	N ₄	
112F*1	1 : 1	2600	1	50	1	1	—	—	25
113G1	1 : 1 : 1	2600	1	60	1	1	1	—	25
114H1	1 : 1 : 1 : 1	2600	1	60	1	1	1	1	25
122F1	1 : 2	1100	0.8	45	0.7	1.4	—	—	15
123G1	1 : 2 : 2	1100	0.8	45	0.7	1.4	1.4	—	15
124H1	1 : 1 : 2 : 2	1100	0.8	45	0.7	0.7	1.4	1.4	15
132F1	1 : 3	650	0.5	40	0.5	1.5	—	—	12
133G1	1 : 3 : 3	650	0.5	40	0.5	1.5	1.5	—	12
134H1	1 : 1 : 3 : 3	650	0.5	40	0.5	0.5	1.5	1.5	12

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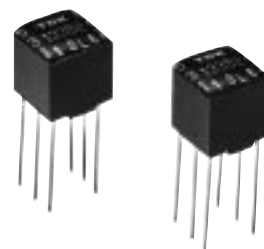
Pin Terminal

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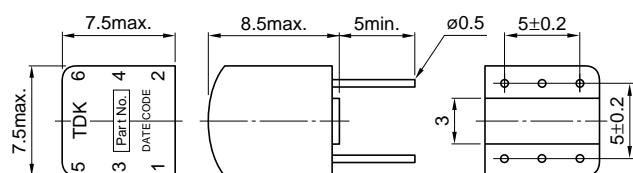
KP-51 TYPE

CHARACTERISTICS

Insulation resistance	100M Ω min.[DC.100V]
Withstand voltage Edc	100V
Maximum rated current	50mA
Temperature range	Operating 0 to +70°C
	Storage -40 to +100°C



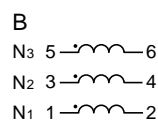
SHAPES AND DIMENSIONS



Weight: 0.8g typ.

Dimensions in mm

WINDING FORM AND PIN NUMBERINGS



ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio N1:N2:N3	Inductance N1 (μ H) \pm 20%	Leakage inductance N3 shorted (μ H)max.	Inter-winding capacitance N1 to N2 (pF)max.	DC resistance(Ω)max.			ET constant (V- μ s) min.
					N1	N2	N3	
113B*5	1 : 1 : 1	10	0.2	5	0.3	0.3	0.3	0.8
123B2	1 : 1 : 2	10	0.2	5	0.3	0.3	0.35	0.8
123B3	1 : 2 : 2	10	0.2	7	0.3	0.35	0.35	0.8
133B2	1 : 1 : 3	10	0.2	6	0.3	0.3	0.4	0.8
133B3	1 : 3 : 3	10	0.2	12	0.3	0.4	0.4	0.8
113B6	1 : 1 : 1	50	0.2	8	0.35	0.35	0.35	1.6
123B4	1 : 1 : 2	50	0.2	12	0.35	0.35	0.45	1.6
123B5	1 : 2 : 2	50	0.2	15	0.35	0.45	0.45	1.6
133B4	1 : 1 : 3	50	0.25	25	0.35	0.35	0.7	1.6
133B5	1 : 3 : 3	50	0.25	25	0.35	0.7	0.7	1.6
113B7	1 : 1 : 1	100	0.25	8	0.35	0.35	0.35	2.2
123B6	1 : 1 : 2	100	0.25	8	0.35	0.35	0.5	2.2
123B7	1 : 2 : 2	100	0.25	12	0.35	0.5	0.5	2.2
133B6	1 : 1 : 3	100	0.25	8	0.35	0.35	0.7	2.2
133B7	1 : 3 : 3	100	0.25	20	0.35	0.7	0.7	2.2
113B8	1 : 1 : 1	500	0.3	14	0.5	0.5	0.5	4.5
123B8	1 : 1 : 2	500	0.3	18	0.5	0.5	1	4.5
123B9	1 : 2 : 2	500	0.3	28	0.5	1	1	4.5

* Refer to Winding form and pin numberings.

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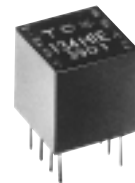
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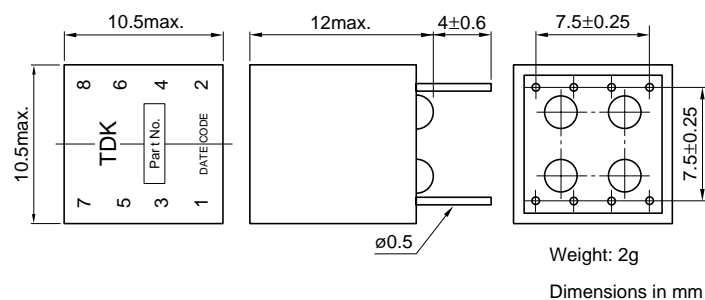
KP-148 TYPE

CHARACTERISTICS

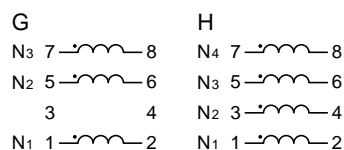
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Maximum rated current	50mA
Temperature range	Operating 0 to +70°C
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SHAPES AND DIMENSIONS



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ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio N ₁ :N ₂ :N ₃ :N ₄	Inductance N ₁ (μ H)min.	Leakage inductance N ₃ shorted (μ H)max.	Inter-winding capacitance N ₁ to N ₂ (pF)max.	DC resistance(Ω)max.				ET constant (V- μ s) min.
					N ₁	N ₂	N ₃	N ₄	
123G*1E	1 : 2 : 2	1100	0.8	45	0.7	1.4	1.4		15
124H1E	1 : 1 : 2 : 2	1100	0.8	45	0.7	0.7	1.4	1.4	15
133G1E	1 : 3 : 3	650	0.5	40	0.5	1.5	1.5		12
134H1E	1 : 1 : 3 : 3	650	0.5	40	0.5	0.5	1.5	1.5	12

* Refer to Winding form and pin numberings.