

Transformers

Pulse Transformers DIP

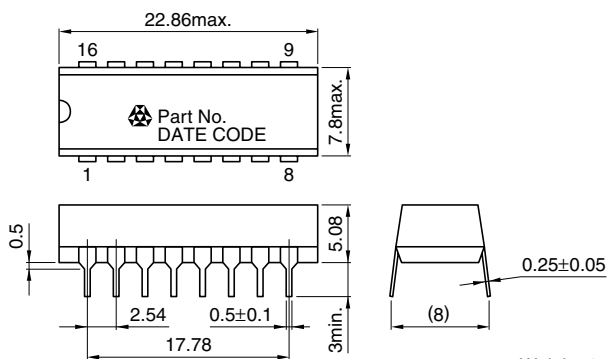
KP Series KP-43, -57 Types

KP-43 TYPE

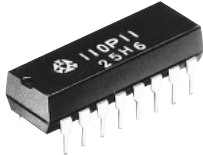
CHARACTERISTICS

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

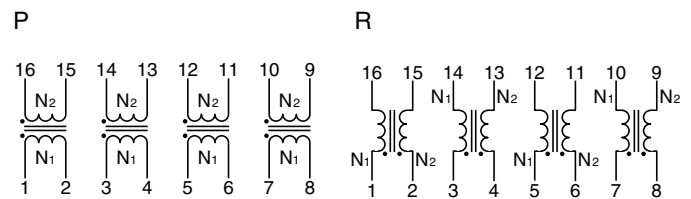
SHAPES AND DIMENSIONS



Weight: 2.2g

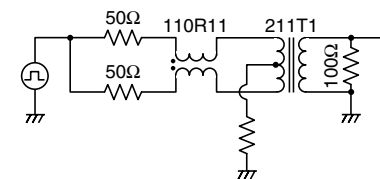
Dimensions in mm
Tolerance: ± 0.25 

WINDING FORM AND PIN NUMBERINGS

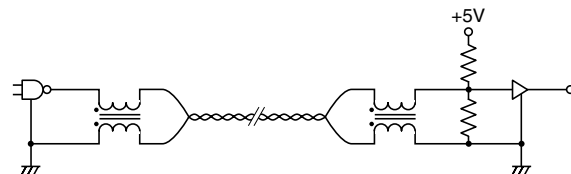


TYPICAL CIRCUITS

For common-mode choke



For pulse transformer



ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio N ₁ :N ₂	Inductance N ₁ (μ H) $\pm 20\%$	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.	Resonant frequency (MHz)typ.
110R*8	1:1	5	0.2	9	0.2	0.8	20
110R9	1:1	10	0.25	10	0.28	1	15
110R10	1:1	33	0.25	10	0.28	1.2	10
110R11	1:1	68	0.25	10	0.28	1.8	15
110R12	1:1	100	0.28	12	0.35	2	15
110P11	1:1	45 $\pm 25\%$	0.25	15	0.3	2.5	15
110P22	1:1	2.5	0.2	6	0.2	0.6	20

* Refer to Winding form and pin numberings.

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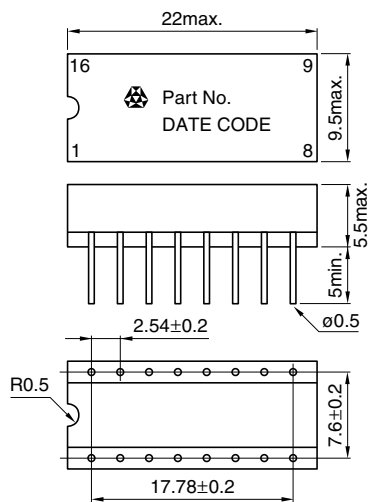
KP Series KP-43, -57 Types

KP-57 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

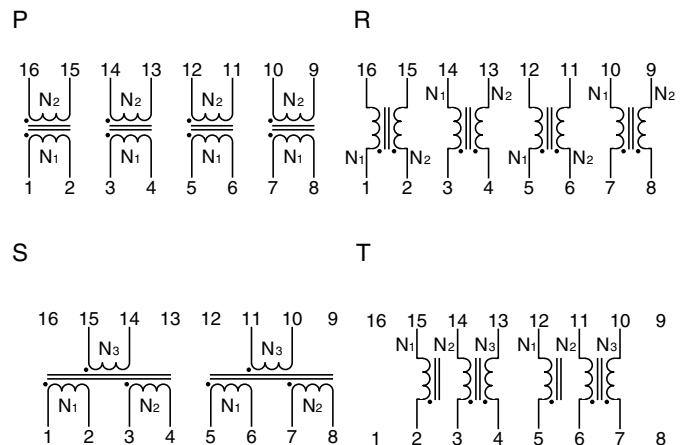
SHAPES AND DIMENSIONS



Weight: 2.2g

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) \pm 20%	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	
110R*1	1:1	330	0.33	15	0.4	0.4	4.5	
110R2	1:1	680	0.4	20	0.45	0.45	5.6	
110R3	1:1	1000	0.5	25	0.48	0.48	8	
110R4	1:1	2200	0.75	33	0.64	0.64	10	
110R5	1:1	4700	0.85	55	1	1	16	
210R1	2:1	330	0.7	9	0.4	0.2	4.5	
210R2	2:1	680	1	11	0.45	0.25	5.6	
210R3	2:1	1000	1.2	14	0.48	0.3	8	
210R4	2:1	2200	1.5	18	0.64	0.36	10	
210R5	2:1	4700	2.4	26	1	0.6	16	
310R1	3:1	330	1.4	6	0.4	0.16	4.5	
310R2	3:1	680	1.8	9	0.45	0.2	5.6	
310R3	3:1	1000	2	11	0.48	0.23	8	
310R4	3:1	2200	2.65	15	0.64	0.25	10	
310R5	3:1	4700	3.54	21	1	0.35	16	
110P16	1:1	330	0.33	15	0.4	0.4	4.5	
110P12	1:1	680	0.4	20	0.45	0.45	5.6	
110P13	1:1	1000	0.5	25	0.48	0.48	8	
110P14	1:1	2200	0.75	33	0.64	0.64	10	
110P15	1:1	4700	0.85	55	1	1	16	

* Refer to Winding form and pin numberings.

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KP-57 TYPE

ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio N ₁ :N ₂ :N ₃	Inductance N ₁ (μH)±20%	Leakage inductance N ₂ shorted (μH)max.	Inter-winding capacitance N ₁ to N ₂ (pF)max.	DC resistance(Ω)max.			ET constant (V-μs) min.
					N ₁	N ₂	N ₃	
210P*11	2:1	330	0.7	9	0.4	0.2		4.5
210P12	2:1	680	1	11	0.45	0.25		5.6
210P13	2:1	1000	1.2	14	0.48	0.3		8
210P14	2:1	2200	1.5	18	0.64	0.36		10
210P15	2:1	4700	2.4	26	1	0.6		16
310P11	3:1	330	1.4	6	0.4	0.16		4.5
310P12	3:1	680	1.8	9	0.45	0.2		5.6
310P13	3:1	1000	2	11	0.48	0.23		8
310P14	3:1	2200	2.65	15	0.64	0.25		10
310P15	3:1	4700	3.54	21	1	0.35		16
111T1	1:1:1	330	0.33	15	0.4	0.4	0.4	4.5
111T2	1:1:1	680	0.4	20	0.45	0.45	0.45	5.6
111T3	1:1:1	1000	0.5	25	0.48	0.48	0.48	8
111T4	1:1:1	2200	0.75	33	0.64	0.64	0.64	10
111T5	1:1:1	4700	0.85	55	1.4	1.4	1.4	16
211T1	2:1:1	330	0.7	9	0.4	0.2	0.2	4.5
211T2	2:1:1	680	1	11	0.45	0.25	0.25	5.6
211T3	2:1:1	1000	1.2	14	0.48	0.3	0.3	8
211T4	2:1:1	2200	1.5	18	0.64	0.36	0.36	10
211T5	2:1:1	4700	2.4	26	1	0.6	0.6	16
221T1	2:2:1	330	0.7	15	0.4	0.4	0.2	4.5
221T2	2:2:1	680	1	20	0.45	0.45	0.25	5.6
221T3	2:2:1	1000	1.2	25	0.48	0.48	0.3	8
221T4	2:2:1	2200	1.5	33	0.64	0.64	0.36	10
221T5	2:2:1	4700	2.4	55	1.4	1.4	0.7	16
311T1	3:1:1	330	1.4	6	0.4	0.16	0.16	4.5
311T2	3:1:1	680	1.8	9	0.45	0.2	0.2	5.6
311T3	3:1:1	1000	2	11	0.48	0.23	0.23	8
311T4	3:1:1	2200	2.65	15	0.64	0.25	0.25	10
311T5	3:1:1	4700	3.54	21	1	0.35	0.35	16
331T1	3:3:1	330	1.4	15	0.4	0.4	0.16	4.5
331T2	3:3:1	680	1.8	20	0.45	0.45	0.2	5.6
331T3	3:3:1	1000	2	25	0.48	0.48	0.23	8
331T4	3:3:1	2200	2.65	33	0.64	0.64	0.25	10
331T5	3:3:1	4700	3.54	55	1.4	1.4	0.55	16
421T1	4:2:1	330	1.5	9	0.4	0.2	0.13	4.5
421T2	4:2:1	680	2.5	11	0.48	0.25	0.16	5.6
421T3	4:2:1	1000	3	14	0.5	0.3	0.24	8
421T4	4:2:1	2200	3.5	18	0.9	0.52	0.31	10
421T5	4:2:1	4700	3.9	30	1.3	0.8	0.48	16
111S1	1:1:1	330	0.33	15	0.4	0.4	0.4	4.5
111S2	1:1:1	680	0.4	20	0.45	0.45	0.45	5.6
111S3	1:1:1	1000	0.5	25	0.48	0.48	0.48	8
111S4	1:1:1	2200	0.75	33	0.64	0.64	0.64	10
111S5	1:1:1	4700	0.85	55	1.4	1.4	1.4	16

* Refer to Winding form and pin numberings.

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ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio N ₁ :N ₂ :N ₃	Inductance N ₁ (μ H) \pm 20%	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	
211S [*] 1	2:1:1	330	0.7	9	0.4	0.2	0.2	4.5
211S2	2:1:1	680	1	11	0.45	0.25	0.25	5.6
211S3	2:1:1	1000	1.2	14	0.48	0.3	0.3	8
211S4	2:1:1	2200	1.5	18	0.64	0.36	0.36	10
211S5	2:1:1	4700	2.4	26	1	0.6	0.6	16
221S1	2:2:1	330	0.7	15	0.4	0.4	0.2	4.5
221S2	2:2:1	680	1	20	0.45	0.45	0.25	5.6
221S3	2:2:1	1000	1.2	25	0.48	0.48	0.3	8
221S4	2:2:1	2200	1.5	33	0.64	0.64	0.36	10
221S5	2:2:1	4700	2.4	55	1.4	1.4	0.7	16
311S1	3:1:1	330	1.4	6	0.4	0.16	0.16	4.5
311S2	3:1:1	680	1.8	9	0.45	0.2	0.2	5.6
311S3	3:1:1	1000	2	11	0.48	0.23	0.23	8
311S4	3:1:1	2200	2.65	15	0.64	0.25	0.25	10
311S5	3:1:1	4700	3.54	21	1	0.35	0.35	16
331S1	3:3:1	330	1.4	15	0.4	0.4	0.16	4.5
331S2	3:3:1	680	1.8	20	0.45	0.45	0.2	5.6
331S3	3:3:1	1000	2	25	0.48	0.48	0.23	8
331S4	3:3:1	2200	2.65	33	0.64	0.64	0.25	10
331S5	3:3:1	4700	3.54	55	1.4	1.4	0.55	16
421S1	4:2:1	330	1.5	9	0.4	0.2	0.13	4.5
421S2	4:2:1	680	2.5	11	0.48	0.25	0.16	5.6
421S3	4:2:1	1000	3	14	0.5	0.3	0.24	8
421S4	4:2:1	2200	3.5	18	0.9	0.52	0.31	10
421S5	4:2:1	4700	3.9	30	1.3	0.8	0.48	16

* Refer to Winding form and pin numberings.