



### TL442 Series

- Rated voltage up to 600Vrms
- Frequency range up to 150kHz
- Insulation class : class B (130°C)
- Dielectric strength : 4000Vrms
- Ambient temperature : -25°C to +70°C
- High thermal stability due to complete potting
- Construction according to standard IEC 742
- With RoHS complied
- Custom-made are available upon request

### Physical Dimension

Fig. I		
Fig. II		
Fig. III		
Fig. IV		

Product Series	Dimension (mm)										Weight (g)
	A	B	C	D	E	F	G	H	I		
TL442-01 Fig. I	18.0	18.3	13.5	7.5	15.0	10.0	4.0	SQ0.5	Ø1.2	9.5	
TL442-02 Fig. II	22.5	27.5	16.5	9.5	20.0	12.5	4.0	SQ0.64	Ø2.0	20.0	
TL442-03 Fig. III	22.5	22.5	17.0	9.5	15.0	12.5	4.0	SQ0.64	Ø2.3	18.0	
TL442-04 Fig. IV	34.0	32.8	22.5	14.0	25.0	20.0	4.0	SQ0.64	Ø3.5	56.0	
<b>Tolerance</b>	± 1.0	± 1.0	± 1.0	± 0.5	± 0.5	± 0.5	± 1.0	± 0.1	± 0.1	approx.	

Part Number	Rated Primary Current	Pri : Sec Turns Ratio	Secondary Inductance (@ 1kHz / 0.1V)	Secondary DC Resistance (@ 26°C)	Min. Secondary Transfer Area (@ B <sub>MAX.</sub> 25°C)	Working Frequency	Max. Rated Voltage	Burden Resistance	Dielectric Strength
	I <sub>p</sub> (A)	n	L <sub>s</sub> (mH)	(Ω)	V <sub>t</sub> (μVs)	(kHz)	(V)	(Ω)	V <sub>rms</sub> (V)
TL442-01-0100	20	1 : 100	10	0.73	764	5 ~ 100	440	1	4k
TL442-01-0200	20	1 : 200	42.7	2.81	1528	1 ~ 50	440	3	4k
TL442-01-0500	20	1 : 500	278.4	18.45	3819	0.1 ~ 20	440	20	4k
TL442-01-1000	20	1 : 1000	1108	78.14	7638	0.1 ~ 10	440	100	4k
TL442-02-0100	40	1 : 100	19.3	0.78	1352	5 ~ 100	440	3	4k
TL442-02-0200	40	1 : 200	76.3	2.88	2704	1 ~ 50	440	15	4k
TL442-02-0500	40	1 : 500	460	18.54	6762	0.1 ~ 20	440	27	4k
TL442-02-1000	40	1 : 1000	1874	63.58	13524	0.1 ~ 10	440	27	4k
TL442-03-0100	50	1 : 100	18.2	0.61	1352	5 ~ 100	480	1	4k
TL442-03-0200	50	1 : 200	77.1	2.18	2704	1 ~ 50	480	3	4k
TL442-03-0500	50	1 : 500	461	12.64	6762	0.1 ~ 20	480	20	4k
TL442-03-1000	50	1 : 1000	1543	55	13524	0.1 ~ 10	480	100	4k
TL442-04-0100	70	1 : 100	34.6	0.392	1652	5 ~ 100	600	1	4k
TL442-04-0200	70	1 : 200	131	1.572	3304	1 ~ 50	600	3	4k
TL442-04-0500	70	1 : 500	833	10.87	7375	0.1 ~ 20	600	20	4k
TL442-04-1000	70	1 : 1000	3340	38.62	16520	0.1 ~ 10	600	100	4k