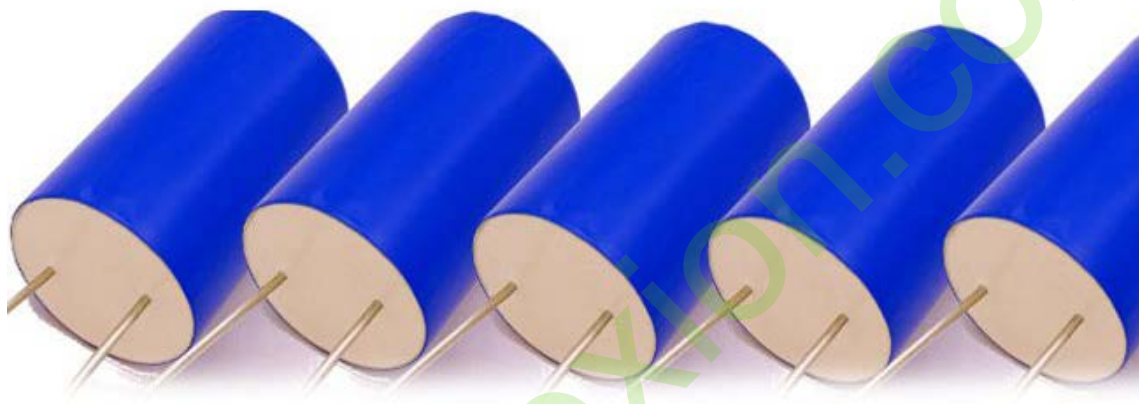




TC Series



The TC range has been developed give Valve Amplifier designs a new level of responsiveness. Manufactured from polypropylene film, precisely metallised with a unique pattern that greatly enhances self healing, these capacitors offer a dramatic performance improvement over electrolytic types. The TC capacitor's equivalent series resistance (ESR) and inductance are a fraction of that of an electrolytic, and therefore instantly deliver all their power precisely when it is needed. The dry construction additionally ensures that the performance is retained through out the expected lifetime of the amplifier. In electrolytic capacitors evaporation of the electrolyte reduces capacitance and increases ESR dramatically during the lifetime leading to performance degradation. In professional equipment, frequently shipped in unpressurised aircraft holds, this process is accelerated.

All TC capacitors are un-polarised making assembly simpler and less error prone. The high voltage ratings eliminate the need for series parallel connection. Kelvin lead connections offer an highly effective decoupling of high frequency power supply noise from the signal path when suitably connected.

- TC capacitors are additionally available in 900V, 1100V, 1400V and 1800V should higher voltage ratings be required

SIZE CHART

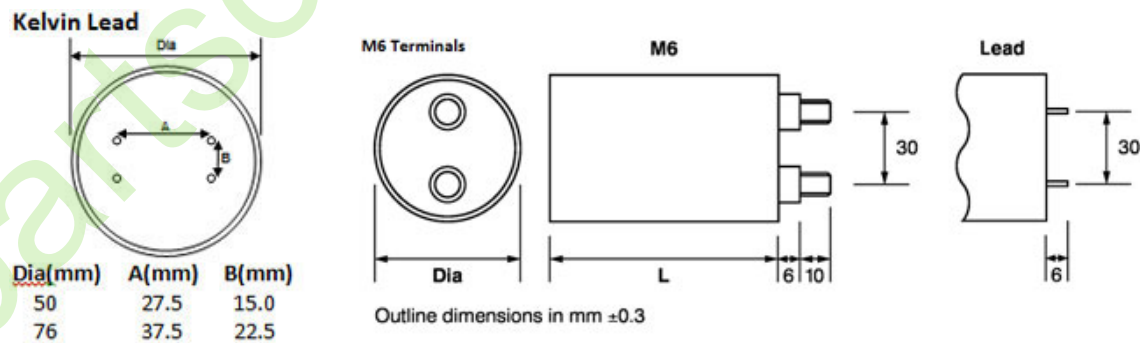
C (μF)	Vdc	Dia (mm)	L (mm)	ESR (m Ω)	I _{max} (A)	Terminals
65	450	50	55	4.6	20*	Kelvin
100	450	50	70	5.4	20*	Kelvin
175	450	76	55	3.0	20*	Kelvin
265	450	76	70	2.6	20*	Kelvin
75	450	50	75	2.0	40	M6 / (S)
110	450	50	75	2.4	40	M6 / (S)
230	450	60	100	0.9	80*	M6 / (S)
400	450	63.5	145	1.0	84*	M6 / (S)
600	450	76	145	0.9	94*	M6 / (S)
750	450	84	145	0.8	98*	M6 / (S)
50	600	50	55	5.4	20*	Kelvin

70	600	50	70	6.0	20*	Kelvin
130	600	76	55	3.2	20*	Kelvin
200	600	76	70	2.8	20*	Kelvin
55	600	50	75	2.4	39	M6 / (S)
85	600	50	75	2.8	29	M6 / (S)
175	600	60	100	1.0	78*	M6 / (S)
300	600	63.5	145	1.1	81*	M6 / (S)
440	600	76	145	0.9	91*	M6 / (S)
560	600	84	145	0.9	95*	M6 / (S)
10	700	35	47	6.4	11	Lead
20	700	35	56	7.5	11	Lead
30	700	45	56	7.9	13	Lead
33	700	45	56	3.5	17	Lead
45	700	50	70	4.5	29	M6 / (S)
70	700	50	70	3.7	22	M6 / (S)
110	700	60	100	1.6	37	M6 / (S)
220	700	63.5	145	1.3	59	M6 / (S)
340	700	76	145	1.1	64	M6 / (S)
430	700	84	145	1.0	69	M6 / (S)

ESR - when measured at 10kHz. I_{max} - Max rms ripple current at 1kHz in 40°C ambient, still air for T hotspot = 70°C

* I_{max} limited by the lead capacity

COMPONENT OUTLINE



ORDERING DETAILS

TC 20u K 600 S

TC	Type	20u	Capacitance in μ F
K	Tolerance (10%)	700V	Rated dc voltage
S	Base stud 6- M6 (optional)		