E55（DC）Series （DC Cylindrical Metallized Polypropylene Film Capacitors）

Features

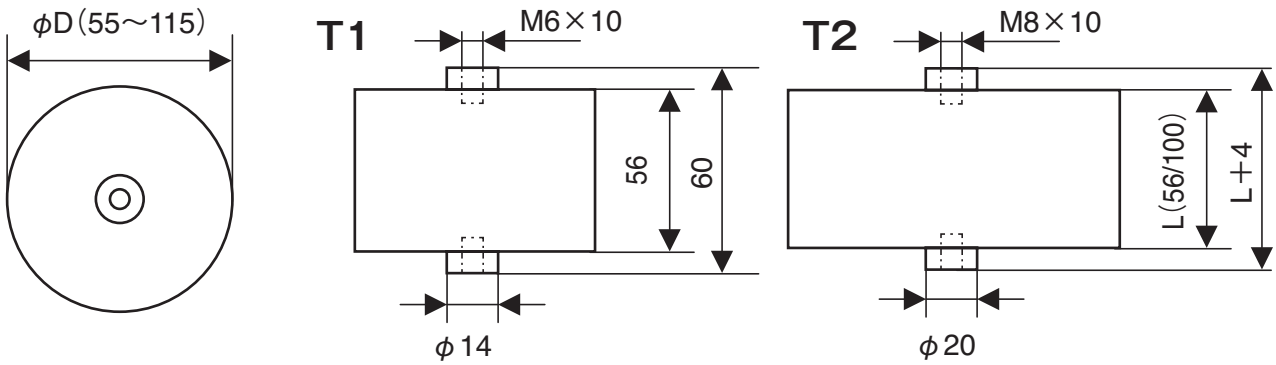
- High voltage range and ultra low inductance capacitors.
- E55 series are made in dry technology.
- For DC application.

Specifications

Item	Specification
Category temperature range	−25 ～+70℃（+85℃ / Includes self temperature rise）
Storage temperature	−40～+85℃
Rated voltage (U_N)	900 ～ 5,000Vdc
Terminal (torque)	M6×10 (4Nm) / M8×10 (7Nm)
Standards	IEC 61071 : 2007
Dielectric	Polypropylene
Dielectric dissipation factor (tan δ_0)	2×10^{-4}
Capacitance tolerance	±10% (optional ±5%)
Safety devices	−
Impregnant	Solid resin based on vegetable oil, Non PCB
Material of case	Plastic (UL94V-0)
Environmental regulations	Comply with RoHS

Dimensions

Item		Specification
Terminal code		T1 / T2
Can material		Plastic (UL94V-0)
Terminal	T1	Axial thread M6×10
		Torque : 4Nm
		I_{max} (terminal) : 60A
	T2	Axial thread M8×10
		Torque : 7Nm
		I_{max} (terminal) : 100A
Degree of protection		IP00
Humidity class		G



Numbering system: e.g. E55, 900VDC, 47μF, φ55×56Lmm, T1terminal

E55 . H 56 - 473 T1 0 / H

- E55 — Series name
- H — Case diameter symbol
- 56 — Case length
- 473 — Capacitance
- T1 — Terminal symbol
- 0 — Auxiliary symbol

Standard Value and Case Size

Rated Capacitance C_N 〔μF〕	Case size ϕD 〔mm〕	Case size L 〔mm〕	Rated ripple voltage U_r 〔V〕	Series resistance (reference) R_S 〔mΩ〕	Thermal resistance (reference) R_{th} 〔K/W〕	Max current I_{max} 〔Arms〕	Max peak current $\hat{I}$ 〔kA〕	Max surge current I_S 〔kA〕	Self inductance (reference) ESL 〔nH〕	Terminal	Clearance in air L 〔mm〕	Creepage distance K 〔mm〕	Weight 〔kg〕	MOQ 〔pcs〕	Part number
Rated voltage U_N : 900Vdc Us : 1,350V U_{TT} : 1,350Vdc															
47	55	56	200	0.58	8.5	45	0.8	2.3	15	T1	97	97	0.18	885	E55.H56-473T10/H
250	105	56	280	0.35	4.5	100	8.3	24.9	15	T2	141	141	0.64	170	E55.Q56-254T20/H
Rated voltage U_N : 1,300Vdc Us : 1,950V U_{TT} : 1,950Vdc															
50	75	56	400	0.98	6.3	65	2.4	7.2	15	T2	111	111	0.33	390	E55.M56-503T20/H
90	95	56	400	0.55	4.9	80	4.3	12.9	15	T2	131	131	0.52	210	E55.P56-903T20/H
Rated voltage U_N : 1,800Vdc Us : 2,700V U_{TT} : 2,700Vdc															
22	75	56	600	1.5	6.3	40	1.6	4.8	15	T2	111	111	0.33	380	E55.M56-223T20/H
80	115	56	600	0.45	4.1	100	5.2	15.6	15	T2	151	151	0.77	132	E55.R56-803T20/H
Rated voltage U_N : 2,000Vdc Us : 3,000V U_{TT} : 3,000Vdc															
50	115	56	650	0.55	4.1	100	4.1	12.3	15	T2	151	151	0.77	132	E55.R56-503T20/H
Rated voltage U_N : 2,400Vdc Us : 3,600V U_{TT} : 3,600Vdc															
30	115	56	700	0.34	4.1	100	3	10	15	T2	151	151	0.77	144	E55.R56-303T20/H
Rated voltage U_N : 2,800Vdc Us : 4,200V U_{TT} : 4,200Vdc															
18	105	56	800	0.6	4.5	90	4.5	13.5	15	T2	141	141	0.64	170	E55.Q56-183T20/H
Rated voltage U_N : 3,200Vdc Us : 4,800V UTT : 4,800Vdc															
10	115	56	1,000	0.71	4.1	100	2.8	8.4	15	T2	151	151	0.77	132	E55.R56-103T20/H
Rated voltage U_N : 5,000Vdc Us : 7,500V U_{TT} : 7,500Vdc															
10	115	100	1,500	1.3	2.3	100	1.9	1.6	15	T2	195	195	1.37	66	E55.R10-103T20/H