

ENERGY STORAGE INNOVATOR **STARCAP** ELECTRIC DOUBLE LAYER CAPACITOR

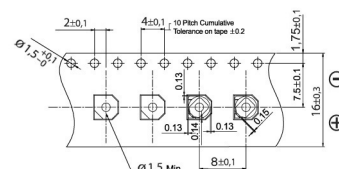
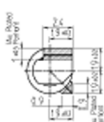
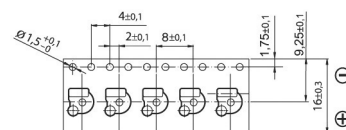
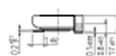
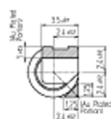
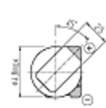


RV[®]
IATF16949



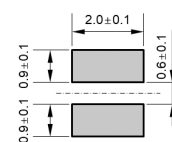
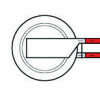
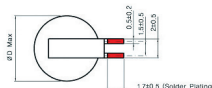
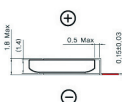
RoHS Compliant

KORCHIP CORP.

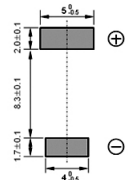
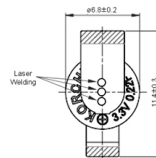
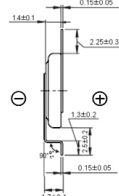
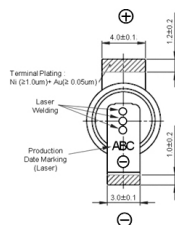


Part number	Operating voltage(V)	Operating Temperature	Capacitance(F)	ESR(Ω, @1kHz)	Cell Size ØDxT(mm)
SM 3R3 703	3.3	-10~60℃	0.070	≤ 200	Ø4.8 x 1.4
SM 3R3 333			0.033	≤ 300	Ø3.8 x 1.1

» **DMS** Series - reflow available at 260°C



Recommendable PCB Layout
(Unit : mm)



Recommendable PCB Layout
(Unit : mm)

Part number	Operating voltage(V)	Operating Temperature	Capacitance(F)	ESR(Ω, @1kHz)	Cell Size ØDxT(mm)
DMS 3R3 224 RS	3.3	-10~60℃	0.22	≤ 200	Ø6.8 x 1.4
DMS 3R3 224 RF					

» DCM / DCMT / DCMP Series

• DCM



V-TYPE



H-TYPE

• DCMT (3.6V)



V-TYPE



H-TYPE

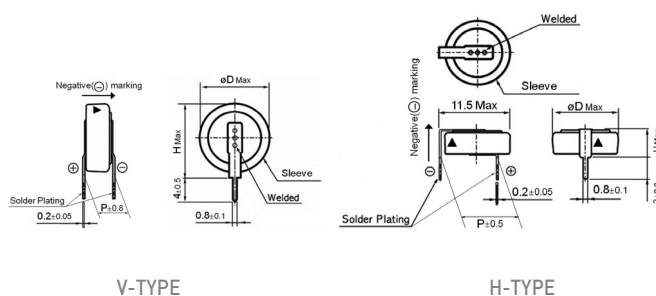
• DCMP



V-TYPE



H-TYPE



V-TYPE

H-TYPE

■ DCM Series

Part number	Operating voltage(V)	Operating Temperature	Capacitance(F)	ESR (Ω, @1kHz)	V Type(mm)			H Type(mm)		
					ØD	H	P	ØD	H	P
DCM 5R5 473	5.5	-25~70℃	0.047	≤ 75	10.8	13.0	5.0	10.8	6.0	10.0
DCM 5R5 104			0.10	≤ 75	10.8	13.0	5.0	10.8	6.0	10.0
DCM 5R5 224			0.22	≤ 75	10.8	13.0	5.0	10.8	6.0	10.0

■ DCMT

Part number	Operating voltage(V)	Operating Temperature	Capacitance(F)	ESR (Ω, @1kHz)	V Type(mm)			H Type(mm)		
					ØD	H	P	ØD	H	P
DCMT 3R6 473	3.6	-25~85℃	0.047	≤ 75	10.8	13.0	5.0	10.8	6.0	10.0
DCMT 3R6 104			0.10	≤ 75	10.8	13.0	5.0	10.8	6.0	10.0
DCMT 3R6 224			0.22	≤ 75	10.8	13.0	5.0	10.8	6.0	10.0

■ DCMP Series

Part number	Operating voltage(V)	Operating Temperature	Capacitance(F)	ESR (Ω, @1kHz)	V Type(mm)			H Type(mm)		
					ØD	H	P	ØD	H	P
DCMP 5R5 473	5.5	-40~70℃	0.047	≤ 75	10.8	13.0	5.0	10.8	6.0	10.0
DCMP 5R5 104			0.10	≤ 75	10.8	13.0	5.0	10.8	6.0	10.0
DCMP 5R5 224			0.22	≤ 75	10.8	13.0	5.0	10.8	6.0	10.0

>> DCS / DCST / DCSH / DCSP Series

• DCS



V-TYPE



H-TYPE



C-TYPE

• DCST (3.6V)



V-TYPE



H-TYPE



C-TYPE

• DCST (5.5V)



• DCSH



• DCSP



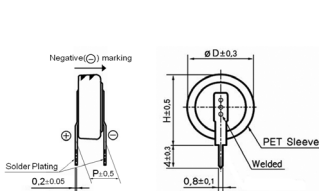
V-TYPE



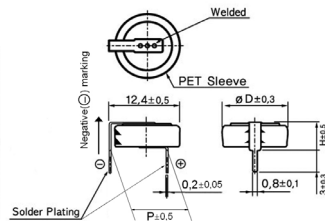
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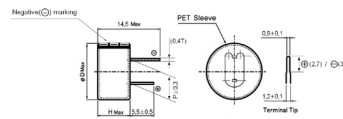
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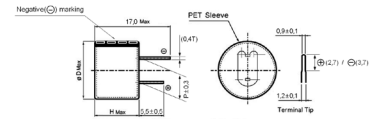
V-TYPE



H-TYPE



C-TYPE



C-TYPE (DCST 5.5V, DCSH)

■ DCS Series

Part number	Operating voltage(V)	Operating Temperature	Capacitance(F)	ESR (Ω, @1kHz)	V Type(mm)			H Type(mm)			C Type(mm)		
					ØD	H	P	ØD	H	P	ØD	H	P
DCS 5R5 224	5.5	-25~70°C	0.22	≤ 75	11.5	12.5	5.0	11.5	5.5	10.0	13.5	7.0	5.0
DCS 5R5 334			0.33	≤ 75	11.5	12.5	5.0	11.5	5.5	10.0	13.5	7.0	5.0
DCS 5R5 474			0.47	≤ 50	11.5	12.5	5.0	11.5	5.5	10.0	13.5	7.0	5.0

■ DCST / DCSH Series

Part number	Operating voltage(V)	Operating Temperature	Capacitance(F)	ESR (Ω, @1kHz)	V Type(mm)			H Type(mm)			C Type(mm)		
					ØD	H	P	ØD	H	P	ØD	H	P
DCST 3R6 224	3.6	-25~85°C	0.22	≤ 75	11.5	12.5	5.0	11.5	5.5	10.0	13.5	7.0	5.0
DCST 3R6 334			0.33	≤ 75	11.5	12.5	5.0	11.5	5.5	10.0	13.5	7.0	5.0
DCST 3R6 474			0.47	≤ 50	11.5	12.5	5.0	11.5	5.5	10.0	13.5	7.0	5.0
DCST 5R5 224	5.5	-25~85°C	0.22	≤ 75							13.5	9.5	5.0
DCST 5R5 334			0.33	≤ 75							13.5	9.5	5.0
DCSH 6R3 224	6.3	-25~70°C	0.22	≤ 75							13.5	9.5	5.0
DCSH 6R3 334			0.33	≤ 75							13.5	9.5	5.0

■ DCSP Series

Part number	Operating voltage(V)	Operating Temperature	Capacitance(F)	ESR (Ω, @1kHz)	V Type(mm)			H Type(mm)			C Type(mm)		
					ØD	H	P	ØD	H	P	ØD	H	P
DCSP 5R5 224	5.5	-40~70°C	0.22	≤ 75	11.5	12.5	5.0	11.5	5.5	10.0	13.5	7.0	5.0
DCSP 5R5 334			0.33	≤ 75	11.5	12.5	5.0	11.5	5.5	10.0	13.5	7.0	5.0
DCSP 5R5 474			0.47	≤ 50	11.5	12.5	5.0	11.5	5.5	10.0	13.5	7.0	5.0

>> DCL / DCLT / DCLH / DCLP Series

• DCL



V-TYPE



H-TYPE



C-TYPE

• DCLT (3.6V)



V-TYPE



H-TYPE



C-TYPE

• DCLT (5.5V)



• DCLH



• DCLP



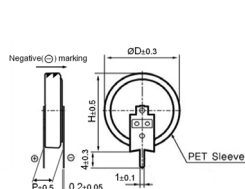
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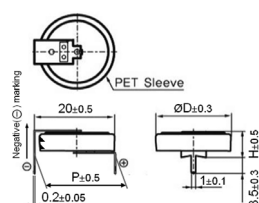
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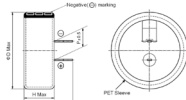
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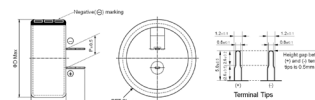
V-TYPE



H-TYPE



C-TYPE



C-TYPE (DCLT 5.5V, DCLH)

■ DCL Series

Part number	Operating voltage(V)	Operating Temperature	Capacitance(F)	ESR (Ω, @1kHz)	V Type(mm)			H Type(mm)			C Type(mm)		
					ØD	H	P	ØD	H	P	ØD	H	P
DCL 5R5 105	5.5	-25~70℃	1.0	≤ 30	19.0	19.5	5.0	19.0	6.5	20.0	21.5	7.5	5.0
DCL 5R5 155			1.5	≤ 30	19.0	19.5	5.0	19.0	6.5	20.0	21.5	7.5	5.0

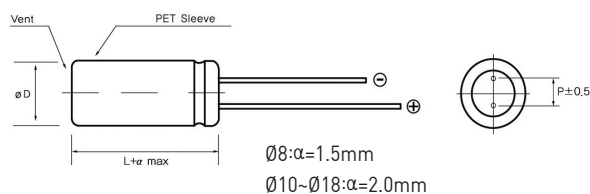
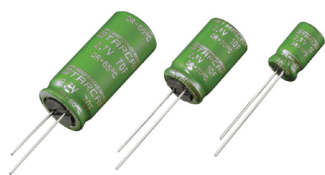
■ DCLT / DCLH Series

Part number	Operating voltage(V)	Operating Temperature	Capacitance(F)	ESR (Ω, @1kHz)	V Type(mm)			H Type(mm)			C Type(mm)		
					ØD	H	P	ØD	H	P	ØD	H	P
DCLT 3R6 105	3.6	-25~85℃	1.0	≤ 30	19.0	19.5	5.0	19.0	6.5	20.0	21.5	7.5	5.0
DCLT 3R6 155			1.5	≤ 30	19.0	19.5	5.0	19.0	6.5	20.0	21.5	7.5	5.0
DCLT 5R5 474	5.5	-25~85℃	0.47	≤ 50							21.5	9.5	5.0
DCLT 5R5 684			0.68	≤ 50							21.5	9.5	5.0
DCLT 5R5 105			1.0	≤ 30							21.5	9.5	5.0
DCLH 6R3 474	6.3	-25~70℃	0.47	≤ 50							21.5	9.5	5.0
DCLH 6R3 684			0.68	≤ 50							21.5	9.5	5.0
DCLH 6R3 105			1.0	≤ 50							21.5	9.5	5.0

■ DCLP Series

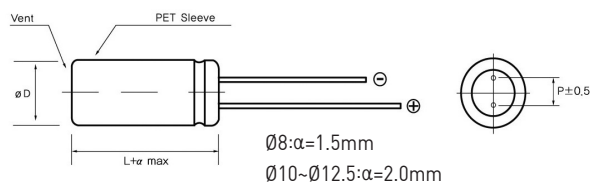
Part number	Operating voltage(V)	Operating Temperature	Capacitance(F)	ESR (Ω, @1kHz)	V Type(mm)			H Type(mm)			C Type(mm)		
					ØD	H	P	ØD	H	P	ØD	H	P
DCLP 5R5 105	5.5	-40~70℃	1.0	≤ 30	19.0	19.5	5.0	19.0	6.5	20.0	21.5	7.5	5.0
DCLP 5R5 155			1.5	≤ 30	19.0	19.5	5.0	19.0	6.5	20.0	21.5	7.5	5.0

» DR / DRL Series



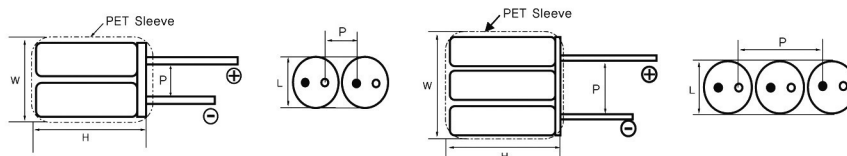
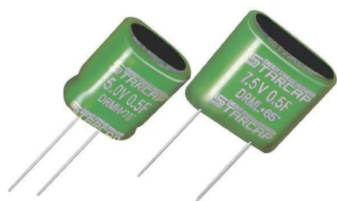
Part number	Operating voltage [V]	Operating temperature	Capacitance [F]	ESR [Ω , @1kHz]	ØDxL [mm]	P [mm]
DR 2R5 105R	2.5	-25~70°C	1	≤ 0.300	Ø8 x 13	3.5
DR 2R5 305R			3	≤ 0.150	Ø8 x 20	3.5
DR 2R5 505R			5	≤ 0.120	Ø8 x 25	3.5
DR 2R5 505S			5	≤ 0.120	Ø10 x 20	5.0
DR 2R5 705L			7	≤ 0.100	Ø8 x 30	3.5
DR 2R5 705R			7	≤ 0.100	Ø10 x 20	5.0
DR 2R5 705D			7	≤ 0.100	Ø10 x 25	5.0
DR 2R5 106R			10	≤ 0.070	Ø10 x 25	5.0
DR 2R5 106RX			10	≤ 0.070	Ø10 x 30	5.0
DR 2R5 106S			10	≤ 0.070	Ø12.5 x 20	5.0
DR 2R5 156R			15	≤ 0.050	Ø12.5 x 25	5.0
DR 2R5 256R			25	≤ 0.030	Ø16 x 25	7.5
DR 2R5 356R			35	≤ 0.025	Ø16 x 35	7.5
DR 2R5 506R			50	≤ 0.021	Ø18 x 40	7.5
DR 2R5 706R			70	≤ 0.020	Ø18 x 40	7.5
DR 2R7 105R	2.7	-40~65°C	1	≤ 0.200	Ø8 x 13	3.5
DR 2R7 305R			3	≤ 0.075	Ø8 x 20	3.5
DR 2R7 505R			5	≤ 0.060	Ø8 x 25	3.5
DR 2R7 505S			5	≤ 0.060	Ø10 x 20	5.0
DR 2R7 705L			7	≤ 0.050	Ø8 x 30	3.5
DR 2R7 705R			7	≤ 0.050	Ø10 x 20	5.0
DR 2R7 705D			7	≤ 0.050	Ø10 x 25	5.0
DR 2R7 106R			10	≤ 0.035	Ø10 x 25	5.0
DR 2R7 106RX			10	≤ 0.035	Ø10 x 30	5.0
DR 2R7 106S			10	≤ 0.035	Ø12.5 x 20	5.0
DR 2R7 156R			15	≤ 0.030	Ø12.5 x 25	5.0
DR 2R7 256R			25	≤ 0.020	Ø16 x 25	7.5
DR 2R7 356R			35	≤ 0.018	Ø16 x 35	7.5
DR 2R7 506R			50	≤ 0.017	Ø18 x 40	7.5
DR 2R7 706R			70	≤ 0.016	Ø18 x 40	7.5
DRL 2R3 106	2.3	-25~65°C	10	≤ 0.160	Ø10 x 20	5.0
DRL 2R3 226			22	≤ 0.080	Ø10 x 30	5.0
DRL 2R3 306			30	≤ 0.060	Ø12.5 x 25	5.0
DRL 2R3 506			50	≤ 0.040	Ø16 x 25	7.5
DRL 2R3 706			70	≤ 0.030	Ø16 x 35	7.5
DRL 2R3 127			120	≤ 0.025	Ø18 x 40	7.5

» DR Series _ 3V



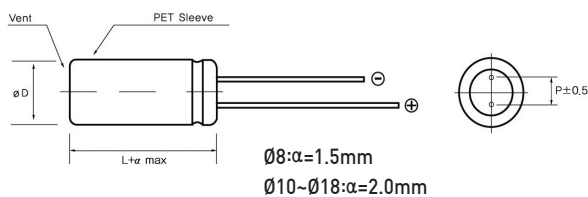
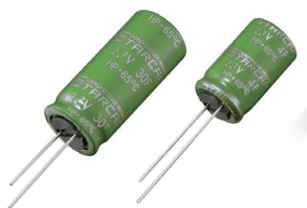
Part number	Operating voltage [V]	Operating temperature	Capacitance [F]	ESR [Ω , @1kHz]	ØDxL [mm]	P [mm]
DR 3R0 105	3.0	-40~65°C	1	≤ 0.200	Ø8 x 13	3.5
DR 3R0 305			3	≤ 0.075	Ø8 x 20	3.5
DR 3R0 505			5	≤ 0.060	Ø10 x 20	5.0
DR 3R0 705			7	≤ 0.050	Ø10 x 25	5.0
DR 3R0 106			10	≤ 0.035	Ø10 x 30	5.0
DR 3R0 156			15	≤ 0.030	Ø12.5 x 25	5.0

» DRM Series



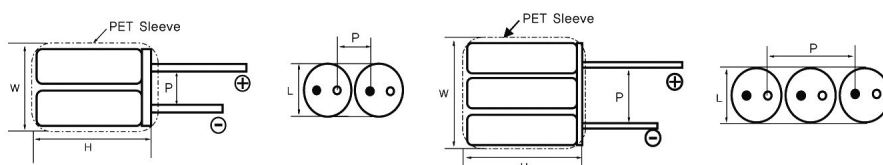
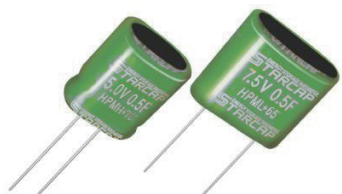
Part number	Operating voltage [V]	Operating temperature	Capacitance [F]	ESR [Ω , @1kHz]	WxLxH [mm]	P [mm]
DRMH 5R0 504	5.0	-25~70°C	0.5	≤ 0.600	16.5 x 8.0 x 14.0	5.0/12.0
DRMH 5R0 155			1.5	≤ 0.300	16.5 x 8.0 x 21.0	5.0/12.0
DRMH 5R0 255			2.5	≤ 0.240	16.5 x 8.0 x 26.0	5.0/12.0
DRMH 5R0 255S			2.5	≤ 0.240	20.5 x 10.0 x 21.0	5.3/15.3
DRMH 5R0 355L			3.5	≤ 0.200	16.5 x 8.0 x 31.0	5.0/12.0
DRMH 5R0 355			3.5	≤ 0.200	20.5 x 10.0 x 21.0	5.3/15.3
DRMH 5R0 355D			3.5	≤ 0.200	20.5 x 10.0 x 26.0	5.3/15.3
DRMH 5R0 505			5	≤ 0.150	20.5 x 10.0 x 26.0	5.3/15.3
DRMH 5R0 505RX			5	≤ 0.150	20.5 x 10.0 x 31.0	5.3/15.3
DRMH 5R0 505S			5	≤ 0.150	25.5 x 12.5 x 21.0	7.8/17.8
DRMH 5R0 755			7.5	≤ 0.110	25.5 x 12.5 x 26.0	7.8/17.8
DRML 5R4 504	5.4	-40~65°C	0.5	≤ 0.400	16.5 x 8.0 x 14.0	5.0/12.0
DRML 5R4 155			1.5	≤ 0.150	16.5 x 8.0 x 21.0	5.0/12.0
DRML 5R4 255			2.5	≤ 0.120	16.5 x 8.0 x 26.0	5.0/12.0
DRML 5R4 255S			2.5	≤ 0.120	20.5 x 10.0 x 21.0	5.3/15.3
DRML 5R4 355L			3.5	≤ 0.100	16.5 x 8.0 x 31.0	5.0/12.0
DRML 5R4 355			3.5	≤ 0.100	20.5 x 10.0 x 21.0	5.3/15.3
DRML 5R4 355D			3.5	≤ 0.100	20.5 x 10.0 x 26.0	5.3/15.3
DRML 5R4 505			5	≤ 0.080	20.5 x 10.0 x 26.0	5.3/15.3
DRML 5R4 505RX			5	≤ 0.080	20.5 x 10.0 x 31.0	5.3/15.3
DRML 5R4 505S			5	≤ 0.080	25.5 x 12.5 x 21.0	7.8/17.8
DRML 5R4 755			7.5	≤ 0.060	25.5 x 12.5 x 26.0	7.8/17.8
DRMH 7R5 334	7.5	-25~70°C	0.33	≤ 0.900	25.0 x 8.0 x 14.0	13.5
DRMH 7R5 105			1	≤ 0.450	25.0 x 8.0 x 21.0	13.5
DRMH 7R5 155			1.5	≤ 0.360	25.0 x 8.0 x 26.0	13.5
DRMH 7R5 155S			1.5	≤ 0.360	31.0 x 10.0 x 21.0	15.6
DRMH 7R5 205			2	≤ 0.300	31.0 x 10.0 x 21.0	15.6
DRMH 7R5 205D			2	≤ 0.300	31.0 x 10.0 x 26.0	15.6
DRMH 7R5 305			3	≤ 0.250	31.0 x 10.0 x 26.0	15.6
DRMH 7R5 305RX			3	≤ 0.250	31.0 x 10.0 x 31.0	15.6
DRMH 7R5 305S			3	≤ 0.250	38.5 x 12.5 x 21.0	20.6
DRMH 7R5 505			5	≤ 0.150	38.5 x 12.5 x 26.0	20.6
DRML 7R5 334		-40~65°C	0.33	≤ 0.600	25.0 x 8.0 x 14.0	13.5
DRML 7R5 105			1	≤ 0.225	25.0 x 8.0 x 21.0	13.5
DRML 7R5 155			1.5	≤ 0.180	25.0 x 8.0 x 26.0	13.5
DRML 7R5 155S			1.5	≤ 0.180	31.0 x 10.0 x 21.0	15.6
DRML 7R5 205			2	≤ 0.150	31.0 x 10.0 x 21.0	15.6
DRML 7R5 205D			2	≤ 0.150	31.0 x 10.0 x 26.0	15.6
DRML 7R5 305			3	≤ 0.100	31.0 x 10.0 x 26.0	15.6
DRML 7R5 305RX			3	≤ 0.100	31.0 x 10.0 x 31.0	15.6
DRML 7R5 305S			3	≤ 0.100	38.5 x 12.5 x 21.0	20.6
DRML 7R5 505			5	≤ 0.090	38.5 x 12.5 x 26.0	20.6

» HP Series



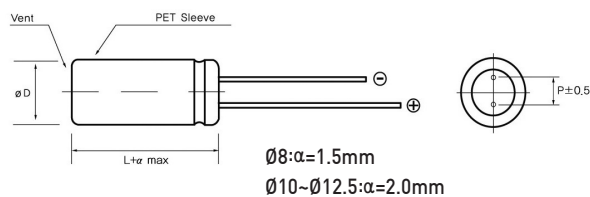
Part number	Operating voltage (V)	Operating temperature	Capacitance (F)	ESR (Ω , @1kHz)	$\varnothing D \times L$ (mm)	P (mm)
HP 2R5 155	2.5	-25~70°C	1.5	≤ 0.125	$\varnothing 8 \times 20$	3.5
HP 2R5 205			2	≤ 0.110	$\varnothing 8 \times 25$	3.5
HP 2R5 305			3	≤ 0.090	$\varnothing 10 \times 20$	5.0
HP 2R5 405			4	≤ 0.080	$\varnothing 10 \times 25$	5.0
HP 2R5 555			5.5	≤ 0.050	$\varnothing 12.5 \times 20$	5.0
HP 2R5 805			8	≤ 0.035	$\varnothing 12.5 \times 25$	5.0
HP 2R5 156			15	≤ 0.025	$\varnothing 16 \times 25$	7.5
HP 2R5 206			20	≤ 0.020	$\varnothing 16 \times 35$	7.5
HP 2R5 306			30	≤ 0.015	$\varnothing 18 \times 40$	7.5
HP 2R7 155	2.7	-40~65°C	1.5	≤ 0.050	$\varnothing 8 \times 20$	3.5
HP 2R7 205			2	≤ 0.045	$\varnothing 8 \times 25$	3.5
HP 2R7 305			3	≤ 0.040	$\varnothing 10 \times 20$	5.0
HP 2R7 405			4	≤ 0.030	$\varnothing 10 \times 25$	5.0
HP 2R7 555			5.5	≤ 0.028	$\varnothing 12.5 \times 20$	5.0
HP 2R7 805			8	≤ 0.024	$\varnothing 12.5 \times 25$	5.0
HP 2R7 156			15	≤ 0.020	$\varnothing 16 \times 25$	7.5
HP 2R7 206			20	≤ 0.018	$\varnothing 16 \times 35$	7.5
HP 2R7 306			30	≤ 0.015	$\varnothing 18 \times 40$	7.5

» HPM Series



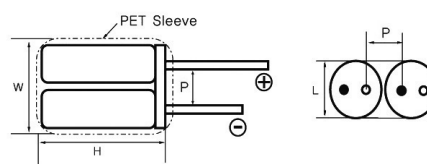
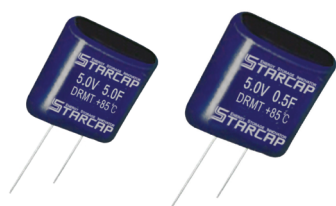
Part number	Operating voltage [V]	Operating temperature	Capacitance (F)	ESR (Ω , @1kHz)	WxLxH [mm]	P [mm]
HPMH 5R0 504	5.0	-25~70°C	0.5	≤ 0.250	16.5 x 8.0 x 21.0	5.0/12.0
HPMH 5R0 105			1	≤ 0.220	16.5 x 8.0 x 26.0	5.0/12.0
HPMH 5R0 155			1.5	≤ 0.180	20.5 x 10.0 x 21.0	5.3/15.3
HPMH 5R0 205			2	≤ 0.150	20.5 x 10.0 x 26.0	5.3/15.3
HPMH 5R0 255			2.5	≤ 0.100	25.5 x 12.5 x 21.0	7.8/17.8
HPMH 5R0 405			4	≤ 0.070	25.5 x 12.5 x 26.0	7.8/17.8
HPML 5R4 504	5.4	-40~65°C	0.5	≤ 0.100	16.5 x 8.0 x 21.0	5.0/12.0
HPML 5R4 105			1	≤ 0.090	16.5 x 8.0 x 26.0	5.0/12.0
HPML 5R4 155			1.5	≤ 0.070	20.5 x 10.0 x 21.0	5.3/15.3
HPML 5R4 205			2	≤ 0.060	20.5 x 10.0 x 26.0	5.3/15.3
HPML 5R4 255			2.5	≤ 0.058	25.5 x 12.5 x 21.0	7.8/17.8
HPML 5R4 405			4	≤ 0.048	25.5 x 12.5 x 26.0	7.8/17.8
HPMH 7R5 504	7.5	-25~70°C	0.5	≤ 0.380	25.0 x 8.0 x 21.0	13.5
HPMH 7R5 754			0.75	≤ 0.350	25.0 x 8.0 x 26.0	13.5
HPMH 7R5 105			1	≤ 0.280	31.0 x 10.0 x 21.0	15.6
HPMH 7R5 155			1.5	≤ 0.160	38.5 x 12.5 x 21.0	20.6
HPMH 7R5 255			2.5	≤ 0.110	38.5 x 12.5 x 26.0	20.6
HPML 7R5 504		-40~65°C	0.5	≤ 0.150	25.0 x 8.0 x 21.0	13.5
HPML 7R5 754			0.75	≤ 0.140	25.0 x 8.0 x 26.0	13.5
HPML 7R5 105			1	≤ 0.125	31.0 x 10.0 x 21.0	15.6
HPML 7R5 155			1.5	≤ 0.085	38.5 x 12.5 x 21.0	20.6
HPML 7R5 255			2.5	≤ 0.075	38.5 x 12.5 x 26.0	20.6

» DRT Series



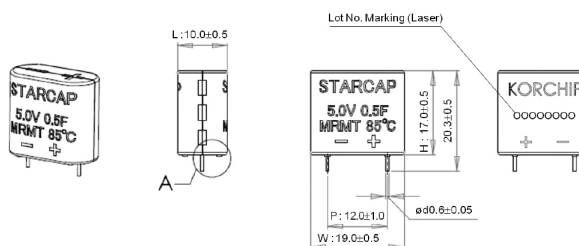
Part number	Operating voltage (V)	Operating temperature	Capacitance (F)	ESR (Ω , @1kHz)	$\varnothing D \times L$ (mm)	P (mm)
DRT 2R5 105	2.5	-40~85°C	1	≤ 0.200	$\varnothing 8 \times 13$	3.5
DRT 2R5 255			2.5	≤ 0.075	$\varnothing 8 \times 20$	3.5
DRT 2R5 305			3	≤ 0.075	$\varnothing 8 \times 20$	5.0
DRT 2R5 505			5	≤ 0.060	$\varnothing 10 \times 20$	5.0
DRT 2R5 705			7	≤ 0.050	$\varnothing 10 \times 25$	5.0
DRT 2R5 106			10	≤ 0.035	$\varnothing 10 \times 30$	5.0
DRT 2R5 156			15	≤ 0.030	$\varnothing 12.5 \times 25$	5.0
DRT 2R5 226			22	≤ 0.020	$\varnothing 16 \times 25$	7.5
DRT 2R5 336			33	≤ 0.018	$\varnothing 16 \times 35$	7.5
DRT 2R5 506			50	≤ 0.017	$\varnothing 18 \times 40$	7.5

» DRMT Series

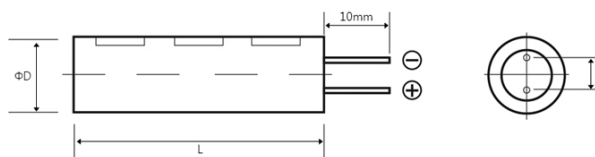


Part number	Operating voltage (V)	Operating temperature	Capacitance (F)	ESR (Ω , @1kHz)	WxLxH (mm)	P (mm)
DRMT 5R0 504	5.0	-40~85°C	0.5	≤ 0.400	16.5 x 8.0 x 14.0	5.0/12.0
DRMT 5R0 125			1.2	≤ 0.150	16.5 x 8.0 x 21.0	5.0/12.0
DRMT 5R0 155			1.5	≤ 0.150	16.5 x 8.0 x 21.0	5.0/12.0
DRMT 5R0 255			2.5	≤ 0.120	20.5 x 10.0 x 21.0	5.3/15.3
DRMT 5R0 355			3.5	≤ 0.100	20.5 x 10.0 x 26.0	5.3/15.3
DRMT 5R0 505			5.0	≤ 0.080	20.5 x 10.0 x 31.0	5.3/15.3
DRMT 5R0 755			7.5	≤ 0.060	25.5 x 12.5 x 26.0	7.8/17.8

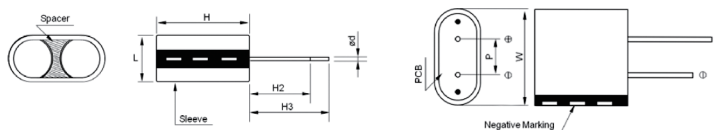
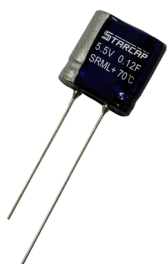
» MRMT Series



Part number	Operating voltage (V)	Operating temperature	Capacitance (F)	ESR (Ω , @1kHz)	WxLxH (mm)	P (mm)
MRMT 5R0 504	5.0	-40~85°C	0.5	≤ 0.400	19.0 x 10.0 x 17.0	12.0

» **SR / SRT** Series

Part number	Operating voltage (V)	Operating temperature	Capacitance (F)	ESR (Ω, @1kHz)	ØDxL (mm)	P (mm)
SR 2R7 604	2.7	-40~65℃	0.6	≤ 0.8	Ø4 x 25	1.5
SR 2R7 105			1.0	≤ 0.6	Ø4 x 35	1.5
SR 2R7 125			1.2	≤ 0.3	Ø5 x 25	2.0
SR 2R7 205			2.0	≤ 0.2	Ø5 x 35	2.0
SRT 2R5 304	2.5	-40~85℃	0.3	≤ 0.5	Ø4 x 25	1.5
SRT 2R5 454			0.45	≤ 0.35	Ø4 x 35	1.5
SRT 2R5 604			0.6	≤ 0.25	Ø5 x 25	2.0
SRT 2R5 904			0.9	≤ 0.12	Ø5 x 35	2.0

» **SRM** Series

Part number	Operating voltage (V)	Operating temperature	Capacitance (F)	ESR (Ω, @1kHz)	WxLxH (mm)	P (mm)
SRML 5RS 124	5.5	-40~70℃	0.12	≤ 1.0	12.0 x 5.0 x 12.5	5.0

Environmental Management of STARCAP

All STARCAP products are RoHS 1, 2 and 3 compliant, Halogen Free and environment friendly.

RoHS 1,2 directive (Pb, Cr+6, Hg, Cd, PBB, PBDE)	ELV directive (Pb, Cr+6, Hg, Cd)	PVC	Halogen Flame Retardant Free (Cl, Br)	RoHS 3 directive (DEHP, BBP, DBP, DIBP)	etc.
N.D.	N.D.	N.D.	N.D.	N.D.	

* N.D. : Not Detected or Within Permitted Range

Cautions for using STARCAP

Please be careful for following points when you use STARCAP.

1) Do not apply more than rated voltage.

If you apply more than rated voltage, STARCAP's electrolyte will be decomposed and its ESR increase. At the worst, it may be broken.

2) Do not use STARCAP for ripple absorption.

3) Polarity

Please mount it in accordance with its polarity.

4) Operating environment and lifetime

STARCAP shows faster deterioration in high temperature operation. The lifetime of STARCAP follows the general lifetime acceleration rule of double or half per every 10°C of ambient temperature decrease or increase respectively. A large temperature difference in one day or humid operating environment results in dew condensation on the surface of STARCAP and it may cause fast deterioration or electrolyte leakage of STARCAP.

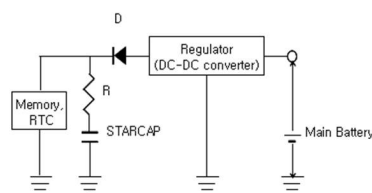
If STARCAP capacitor is used in an electronic or electrical device over a long period of time especially in high temperature or high humidity environment, please check it periodically and replace it when necessary.

5) Cleaning

Some detergent or high temperature drying causes deterioration of STARCAP.

If you wash STARCAP, Consult us.

6) Following figure shows the general back-up circuit.



D : Diode to prevent the reverse current

R : Resistor to control the charging current

7) Short-circuit STARCAP

DO NOT short-circuit between terminals of STARCAP without resistor.

8) Storage

In long term storage, please store STARCAP in following condition;

- ① TEMP. : 15 ~ 35 °C
- ② HUMIDITY : 45 ~ 75 %RH
- ③ Non-dust, non-acidic and/or non-alkaline atmosphere
- ④ Avoid direct sun light, strong magnetic field

Storage period limit is one(1) year when a STARCAP is stored in the above condition. Storage in improper condition may cause some damage on terminal surface or on outer sleeve of STARCAP.

If the storage period exceed one(1) year in the customer's warehouse, please contact the manufacturer.

9) Do not disassemble STARCAP. It contains electrolyte.

10) Series connection of STARCAP

Over-rated voltage may be applied to a single STARCAP in series connection due to the deviation of capacitance and ESR of each STARCAP. Please inform us if you are using STARCAP in series connection and please design so as not to apply over-rated voltage to each STARCAP, and use STARCAPs from same lot.

11) The tips of STARCAP terminals are very sharp. Please handle with care.

12) Industrial Application

Some industrial applications require a very high level of reliability to its parts including EDLCs. Therefore if the EDLC is to be used in an industrial application such as factory machinery, heavy electricity, etc. periodic inspection of EDLC is necessary. If there found any problem with the EDLC, please replace it.

13) Use of Functional Coating Chemicals

Some solvents of functional coating chemicals which applied on the same PCB with the STARCAP EDLC may cause undesired effects on the EDLC such as surface oxidation or electrolyte leakage. When apply those chemicals, be careful of not coating the EDLC's surface.

>> General STARCAP Application Matrix

	RTC, Memory or System Back-up Power	Sub Power with other Power Sources	Main Power
Extra Small Size	Smart Phone, GPS Module, Digital Camera, Digital Photo Frame, Digital Thermometer	Motor Drive, Pulse Power, AMR, LED Flash Light	Small Motor Drive, Touch Pen, Digital Locker
	SM / DMS Series 3.3V 0.033~0.22F	SR Series 2.5V, 2.7V 0.60~2.0F	SR Series 2.5V, 2.7V 0.60~2.0F
Small Size	AV, VCR, DVD Drive, Car Audio, Rice Cooker, Printer, Energy Meter, Industrial Machine Controller		Bike Tail Lamp, Flash Lights, Remote Controller
	DA/DCM/DCS/DCL Series 3.6V ~ 6.3V 0.047~1.5F		DCM/DCS/DCL Series 3.6V ~ 6.3V 0.047F ~ 1.5F
Medium Size	Smart Phone, GPS Module, Digital Camera, Digital Photo Frame, Digital Thermometer	Motor Drive, Pulse Power, AMR, LED Flash Light	Small Motor Drive, Touch Pen, Digital Locker
	SM / DMS Series 3.3V 0.033~0.22F	SR Series 2.5V, 2.7V 0.60~2.0F	SR Series 2.5V, 2.7V 0.60~2.0F

• This Product Catalog is Released on May 1, 2022

All specifications in this catalog are subject to change without notice for market demands and technical improvement.



Green Certification is a national certification system by Korean government certifying a green technology or a promising green project to clearly stipulate the object and scope of supporting green investment and concentrate on investment as part of the government's "Low Carbon Green Growth" Policy.

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