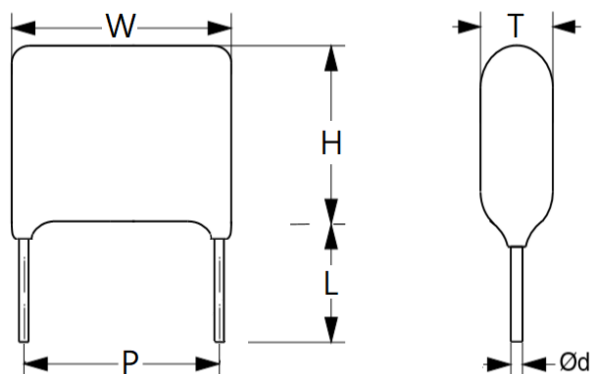


■ 外形圖 Outline Drawing (For Example)



■ 典型應用

作為開關電源的中間電路電容器，電子鎮流器，
逆變器。(直流鏈路、直流濾波器和 PFC)

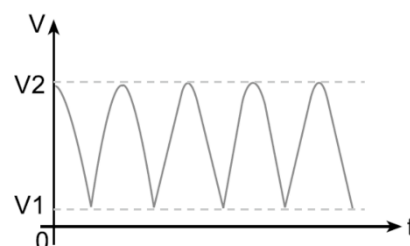
■ Typical Applications

As intermediate circuit capacitors for SMPS,
Electronic ballast, Inverter (DC-Link, DC-filter and PFC)

■ 注意 Notes

SMTE 系列僅推薦用於直流濾波器或直流阻斷電路，
這意味施加在電容器上的電壓必須是單向紋波電壓。

The SMTE series is only recommended to use in
DC-Filter or DC blocking circuits, It means the
voltage applied to the capacitors must be
unidirectional ripple voltage.



$$V1 \geq 0, V2 \leq U_R, V_{rms} = (V2 - V1) \div \sqrt{2},$$

$$I_{rms} = 2\pi f \times C \times (V2 - V1) \div \sqrt{2}$$

■ 規格 Specifications

參考標準 Reference Standard	GB/T 7332 (IEC 60384-2)			
氣候類別 Climatic Category	40/105/21			
額定溫度 Rated Temperature	85°C			
工作溫度範圍 Operating Temperature Range	-40°C ~ +105°C (+85°C to +105°C: decreasing factor 1.25% per °C for U_R)			
容值範圍 Capacitance Range	0.01μF ~ 10μF			
額定直流電壓 Rated (DC) Voltage	250Vdc	400/450Vdc	520Vdc	630Vdc
容值公差 Capacitance Tolerance	±5%(J)、±10%(K)、±20%(M)			
耐電壓 Voltage Proof	$U_R \times 1.6$, 5s (DC)			
損耗因素 Dissipation Factor	≤ 1.0% at 1kHz, (1Vrms Max. at 20°C)			
絕緣電阻 Insulation Resistance	$U_R > 100V$, Voltage charge 100Vdc, 1 min, 20°C		$C_R \leq 0.33\mu F$, $IR \geq 7500M\Omega$ $C_R > 0.33\mu F$, $IR \times C_R \geq 2500s$	

■ 尺寸 Dimensions (mm)

250Vdc						
Cap. μF	W	H	T	P	d	Part number
0.10	10.0	7.7	4.0	7.5	0.6	SMTE_104+0250D*08**
0.15	10.0	8.3	4.5	7.5	0.6	SMTE_154+0250D*08**
0.22	10.0	9.9	4.9	7.5	0.6	SMTE_224+0250D*08**
0.33	10.0	10.4	5.7	7.5	0.6	SMTE_334+0250D*08**
0.47	10.0	11.8	6.3	7.5	0.6	SMTE_474+0250D*08**
0.68	10.0	13.9	6.9	7.5	0.6	SMTE_684+0250D*08**
1.0	10.0	15.3	8.4	7.5	0.6	SMTE_105+0250D*08**
0.33	12.5	9.0	5.2	10	0.6	SMTE_334+0250D*10**
0.47	12.5	10.8	5.4	10	0.6	SMTE_474+0250D*10**
0.68	12.5	11.7	6.3	10	0.6	SMTE_684+0250D*10**
1.0	12.5	14.4	7.4	10	0.6	SMTE_105+0250D*10**
1.5	12.5	16.9	8.4	10	0.6	SMTE_155+0250D*10**
2.2	12.5	19.7	9.5	10	0.6	SMTE_225+0250D*10**
0.47	17.5	9.3	4.7	15	0.8	SMTE_474+0250D*15**
0.68	17.5	10.0	5.4	15	0.8	SMTE_684+0250D*15**
1.0	17.5	12.0	6.5	15	0.8	SMTE_105+0250D*15**
1.5	17.5	14.2	7.2	15	0.8	SMTE_155+0250D*15**
2.2	17.5	16.6	8.0	15	0.8	SMTE_225+0250D*15**
3.3	17.5	19.3	9.2	15	0.8	SMTE_335+0250D*15**
4.7	17.5	21.2	11.0	15	0.8	SMTE_475+0250D*15**
1.0	25.5	10.9	5.5	22.5	0.8	SMTE_105+0250D*23**
1.5	25.5	12.9	5.9	22.5	0.8	SMTE_155+0250D*23**
2.2	25.5	13.9	6.9	22.5	0.8	SMTE_225+0250D*23**
3.3	25.5	16.4	7.8	22.5	0.8	SMTE_335+0250D*23**
4.7	25.5	18.8	8.7	22.5	0.8	SMTE_475+0250D*23**
6.8	25.5	20.6	10.5	22.5	0.8	SMTE_685+0250D*23**
10	25.5	23.0	12.9	22.5	0.8	SMTE_106+0250D*23**

400Vdc / 450Vdc						
Cap. μF	W	H	T	P	d	Part number
0.033	10.0	7.1	4.0	7.5	0.6	SMTE_333+0450D*08**
0.047	10.0	7.1	4.0	7.5	0.6	SMTE_473+0450D*08**
0.068	10.0	8.0	4.4	7.5	0.6	SMTE_683+0450D*08**
0.10	10.0	9.7	5.1	7.5	0.6	SMTE_104+0450D*08**
0.15	10.0	10.6	6.0	7.5	0.6	SMTE_154+0450D*08**
0.22	10.0	12.1	6.7	7.5	0.6	SMTE_224+0450D*08**
0.10	12.5	9.1	4.4	10	0.6	SMTE_104+0450D*10**
0.15	12.5	9.7	5.1	10	0.6	SMTE_154+0450D*10**
0.22	12.5	11.1	5.7	10	0.6	SMTE_224+0450D*10**
0.33	12.5	13.2	6.2	10	0.6	SMTE_334+0450D*10**
0.47	12.5	15.4	6.8	10	0.6	SMTE_474+0450D*10**
0.68	12.5	16.8	8.2	10	0.8	SMTE_684+0450D*10**
1.0	12.5	19.6	9.4	10	0.8	SMTE_105+0450D*10**
0.22	17.5	10.3	4.9	15	0.8	SMTE_224+0450D*15**
0.33	17.5	11.1	5.7	15	0.8	SMTE_334+0450D*15**
0.47	17.5	13.1	6.1	15	0.8	SMTE_474+0450D*15**
0.68	17.5	15.3	6.8	15	0.8	SMTE_684+0450D*15**
1.0	17.5	17.2	8.7	15	0.8	SMTE_105+0450D*15**
1.5	17.5	20.1	10.0	15	0.8	SMTE_155+0450D*15**
2.2	17.5	22.3	12.2	15	0.8	SMTE_225+0450D*15**
0.47	25.5	11.3	5.9	22.5	0.8	SMTE_474+0450D*23**
0.68	25.5	13.3	6.3	22.5	0.8	SMTE_684+0450D*23**
1.0	25.5	14.4	7.4	22.5	0.8	SMTE_105+0450D*23**
1.5	25.5	16.9	8.3	22.5	0.8	SMTE_155+0450D*23**
2.2	25.5	19.6	9.5	22.5	0.8	SMTE_225+0450D*23**
3.3	25.5	21.8	11.7	22.5	0.8	SMTE_335+0450D*23**

(1) The symbol + means capacitance tolerance (J=±5%, K=±10%)

(2) The symbol * means style of lead forming

(3) The symbol ** means the lead length

■ 尺寸 Dimensions (mm)

520Vdc						
Cap. μF	W	H	T	P	d	Part number
0.022	10.0	7.5	4.0	7.5	0.6	SMTE_223+0520D*08**
0.033	10.0	8.5	4.4	7.5	0.6	SMTE_333+0520D*08**
0.047	10.0	9.6	4.7	7.5	0.6	SMTE_473+0520D*08**
0.068	10.0	10.4	5.4	7.5	0.6	SMTE_683+0520D*08**
0.068	12.5	9.6	4.7	10	0.6	SMTE_683+0520D*10**
0.10	12.5	10.9	5.5	10	0.6	SMTE_104+0520D*10**
0.15	12.5	11.9	6.5	10	0.6	SMTE_154+0520D*10**
0.22	12.5	14.1	7.1	10	0.6	SMTE_224+0520D*10**
0.33	12.5	15.6	8.6	10	0.6	SMTE_334+0520D*10**
0.10	17.5	9.4	4.7	15	0.8	SMTE_104+0520D*15**
0.15	17.5	10.2	5.5	15	0.8	SMTE_154+0520D*15**
0.22	17.5	11.6	6.1	15	0.8	SMTE_224+0520D*15**
0.33	17.5	13.7	6.7	15	0.8	SMTE_334+0520D*15**
0.47	17.5	14.9	7.9	15	0.8	SMTE_474+0520D*15**
0.68	17.5	17.5	8.9	15	0.8	SMTE_684+0520D*15**
1.0	17.5	20.9	10.7	15	0.8	SMTE_105+0520D*15**
1.5	17.5	23.4	13.2	15	0.8	SMTE_155+0520D*15**
0.33	25.5	12.4	5.4	22.5	0.8	SMTE_334+0520D*23**
0.47	25.5	13.3	6.3	22.5	0.8	SMTE_474+0520D*23**
0.68	25.5	15.5	7.0	22.5	0.8	SMTE_684+0520D*23**
1.0	25.5	18.5	8.4	22.5	0.8	SMTE_105+0520D*23**
1.5	25.5	20.4	10.3	22.5	0.8	SMTE_155+0520D*23**
2.2	25.5	22.6	12.5	22.5	0.8	SMTE_225+0520D*23**

(1) The symbol + means capacitance tolerance (J=±5%, K=±10%)

(2) The symbol * means style of lead forming

(3) The symbol ** means the lead length

630Vdc						
Cap. μF	W	H	T	P	d	Part number
0.010	10.0	7.6	4.1	7.5	0.6	SMTE_103+0630D*08**
0.015	10.0	7.6	4.1	7.5	0.6	SMTE_153+0630D*08**
0.022	10.0	8.1	4.6	7.5	0.6	SMTE_223+0630D*08**
0.033	10.0	9.2	5.1	7.5	0.6	SMTE_333+0630D*08**
0.047	10.0	10.5	5.5	7.5	0.6	SMTE_473+0630D*08**
0.068	10.0	11.9	6.2	7.5	0.6	SMTE_683+0630D*08**
0.10	10.0	13.1	7.7	7.5	0.6	SMTE_104+0630D*08**
0.047	12.5	9.6	4.6	10	0.6	SMTE_473+0630D*10**
0.068	12.5	10.3	5.3	10	0.6	SMTE_683+0630D*10**
0.10	12.5	11.2	6.5	10	0.6	SMTE_104+0630D*10**
0.15	12.5	13.9	6.9	10	0.6	SMTE_154+0630D*10**
0.22	12.5	15.3	8.3	10	0.6	SMTE_224+0630D*10**
0.10	17.5	10.6	5.1	15	0.8	SMTE_104+0630D*15**
0.15	17.5	12.5	5.5	15	0.8	SMTE_154+0630D*15**
0.22	17.5	13.5	6.5	15	0.8	SMTE_224+0630D*15**
0.33	17.5	14.8	7.8	15	0.8	SMTE_334+0630D*15**
0.47	17.5	16.3	9.2	15	0.8	SMTE_474+0630D*15**
0.68	17.5	19.1	10.4	15	0.8	SMTE_684+0630D*15**
1.0	17.5	22.8	12.6	15	0.8	SMTE_105+0630D*15**
1.5	17.5	25.8	15.6	15	0.8	SMTE_155+0630D*15**
0.22	25.5	11.2	5.7	22.5	0.8	SMTE_224+0630D*23**
0.33	25.5	12.2	6.7	22.5	0.8	SMTE_334+0630D*23**
0.47	25.5	14.3	7.3	22.5	0.8	SMTE_474+0630D*23**
0.68	25.5	15.7	8.7	22.5	0.8	SMTE_684+0630D*23**
1.0	25.5	20.0	9.8	22.5	0.8	SMTE_105+0630D*23**
1.5	25.5	22.2	12.1	22.5	0.8	SMTE_155+0630D*23**
2.2	25.5	24.9	14.8	22.5	0.8	SMTE_225+0630D*23**

■ 尺寸 Dimensions (mm) for Miniature version

250Vdc						
Cap. μF	W	H	T	P	d	Part number
0.22	10.0	7.9	4.0	7.5	0.6	SMTE_224+0250D*08**
0.27	10.0	8.8	4.1	7.5	0.6	SMTE_274+0250D*08**
0.33	10.0	9.1	4.5	7.5	0.6	SMTE_334+0250D*08**
0.47	10.0	11.4	5.0	7.5	0.6	SMTE_474+0250D*08**
0.56	10.0	12.9	5.1	7.5	0.6	SMTE_564+0250D*08**
0.68	10.0	13.4	5.6	7.5	0.6	SMTE_684+0250D*08**
0.82	10.0	13.9	6.1	7.5	0.6	SMTE_824+0250D*08**
1.00	10.0	14.5	6.7	7.5	0.6	SMTE_105+0250D*08**
0.33	12.5	7.9	4.1	10	0.6	SMTE_334+0250D*10**
0.47	12.5	9.6	4.2	10	0.6	SMTE_474+0250D*10**
0.56	12.5	9.9	4.7	10	0.6	SMTE_564+0250D*10**
0.68	12.5	10.3	5.1	10	0.6	SMTE_684+0250D*10**
0.82	12.5	10.8	5.5	10	0.6	SMTE_824+0250D*10**
1.00	12.5	11.3	6.1	10	0.6	SMTE_105+0250D*10**

400Vdc / 450Vdc						
Cap. μF	W	H	T	P	d	Part number
0.047	10.0	6.9	3.7	7.5	0.6	SMTE_473+0450D*08**
0.068	10.0	7.8	4.0	7.5	0.6	SMTE_683+0450D*08**
0.082	10.0	8.7	4.0	7.5	0.6	SMTE_823+0450D*08**
0.10	10.0	9.0	4.4	7.5	0.6	SMTE_104+0450D*08**
0.12	10.0	9.3	4.7	7.5	0.6	SMTE_124+0450D*08**
0.15	10.0	10.8	5.1	7.5	0.6	SMTE_154+0450D*08**
0.18	10.0	11.2	5.5	7.5	0.6	SMTE_184+0450D*08**
0.22	10.0	11.8	6.0	7.5	0.6	SMTE_224+0450D*08**
0.27	10.0	12.4	6.6	7.5	0.6	SMTE_274+0450D*08**
0.10	12.5	8.4	3.8	10	0.6	SMTE_104+0450D*10**
0.12	12.5	8.7	4.0	10	0.6	SMTE_124+0450D*10**
0.15	12.5	9.0	4.4	10	0.6	SMTE_154+0450D*10**
0.18	12.5	9.4	4.7	10	0.6	SMTE_184+0450D*10**

400Vdc / 450Vdc						
Cap. μF	W	H	T	P	d	Part number
0.22	12.5	10.3	4.9	10	0.6	SMTE_224+0450D*10**
0.27	12.5	10.8	5.4	10	0.6	SMTE_274+0450D*10**
0.33	12.5	12.3	5.4	10	0.6	SMTE_334+0450D*10**
0.47	12.5	13.9	6.6	10	0.6	SMTE_474+0450D*10**
0.68	12.5	16.8	7.4	10	0.6	SMTE_684+0450D*10**
0.82	12.5	17.5	8.2	10	0.6	SMTE_824+0450D*10**
1.00	12.5	18.4	9.1	10	0.6	SMTE_105+0450D*10**

520Vdc						
Cap. μF	W	H	T	P	d	Part number
0.033	10.0	7.7	3.9	7.5	0.6	SMTE_333+0520D*08**
0.047	10.0	8.8	4.1	7.5	0.6	SMTE_473+0520D*08**
0.068	10.0	9.4	4.8	7.5	0.6	SMTE_683+0520D*08**
0.10	10.0	10.8	5.8	7.5	0.6	SMTE_104+0520D*08**
0.15	10.0	11.9	7.0	7.5	0.6	SMTE_154+0520D*08**
0.068	12.5	8.7	4.0	10	0.6	SMTE_683+0520D*10**
0.10	12.5	9.9	4.5	10	0.6	SMTE_104+0520D*10**
0.15	12.5	10.7	5.3	10	0.6	SMTE_154+0520D*10**
0.22	12.5	13.3	6.0	10	0.6	SMTE_224+0520D*10**
0.33	12.5	14.6	7.3	10	0.6	SMTE_334+0520D*10**

(1) The symbol + means capacitance tolerance (J=±5%, K=±10%)

(2) The symbol * means style of lead forming

(3) The symbol ** means the lead length