

AC & PULSE METALLISED POLYPROPYLENE FILM CAPACITORS

MMPP (Double side metallised film capacitor) – D.C Application

MAIN APPLICATION: SMPS, Motor control circuits, Deflection circuit in T.V sets (fly back) and monitors Electronic ballast, Snubber and SCR commutating circuits & application with High voltage and High Current.

CONSTRUCTION: Series constructed, Low inductive wound cell of polypropylene and double side metallised film as Electrodes coated with flame retardant epoxy resin or enclosed in a flame retardant box.

CLIMATIC CATEGORY: 40/100/56

APPLICABLE SPECIFICATION: IEC 384-16

CAPACITANCE VALUE, RATED VOLTAGE (DC):
Refer dimension chart.

CAPACITANCE TOLERANCE: ± 5%, ± 10%, ± 20%

VOLTAGE PROOF: Between terminals: 1.6 times the rated voltage for 2 seconds.

TAN δ

Frequency (kHz)	$C_R < 0.1 \mu\text{fd}$	$0.1 \mu\text{fd} < C_R \leq 1 \mu\text{fd}$	$C_R > 1 \mu\text{fd}$
At 1	0.03%	0.03%	0.04%
At 10	0.04%	0.06%	
At 100	0.15%		

LIFE TEST CONDITIONS

(Loading at elevated temperature)
Loaded at 1.25 times of rated voltage at 85° C or 1.25 times of category voltage at 100° C for 1000 hours. Category voltage is 80% of the rated voltage at 100° C.

Criteria after the test:

Uc/c: ≤ 5% of initial value.

Increase of Tan δ : ≤ 0.0015

Insulation resistance: ≥ 50% of the value mentioned in IR chart.

INSULATION RESISTANCE

Minimum Insulation Resistance R_{IS}

(or) time constant $T = C_R \times R_{IS} = 30\,000 \text{ s}$
at 25° C, relative humidity ≤ 70%

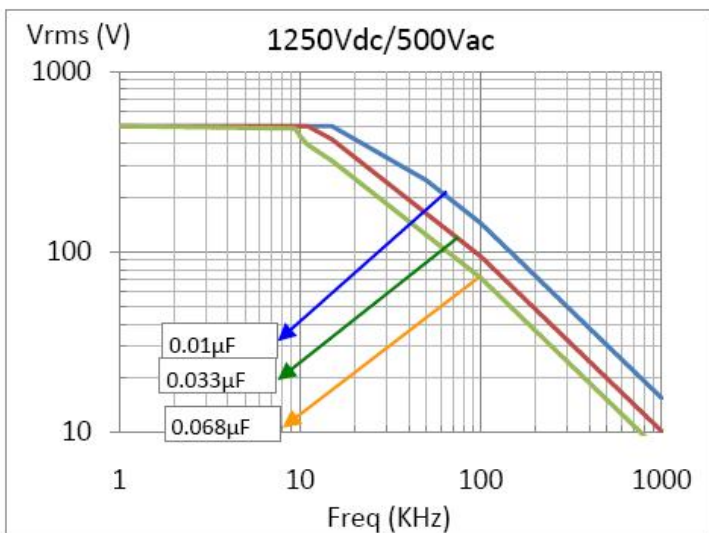
$C_R \leq 0.33 \mu\text{F}$

≥ 100000 M Ω

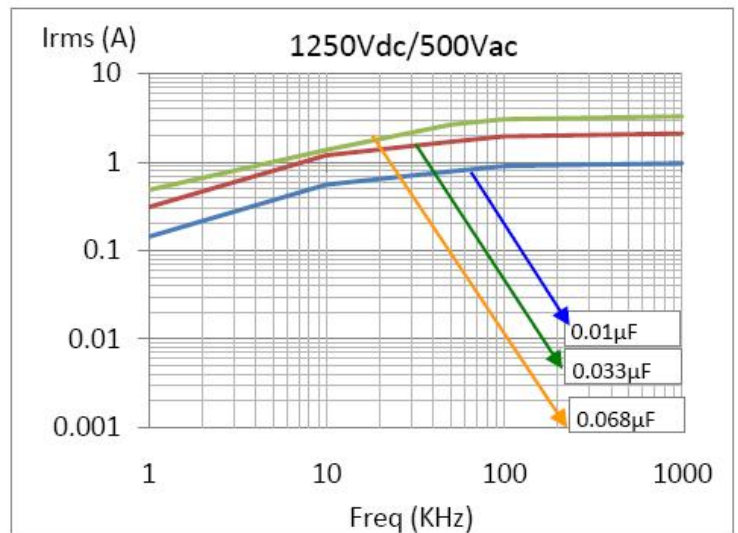
$C_R > 0.33 \mu\text{F}$

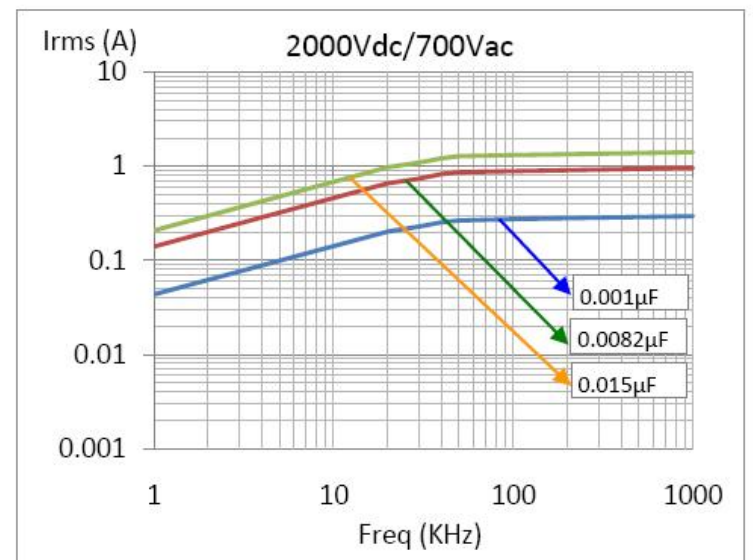
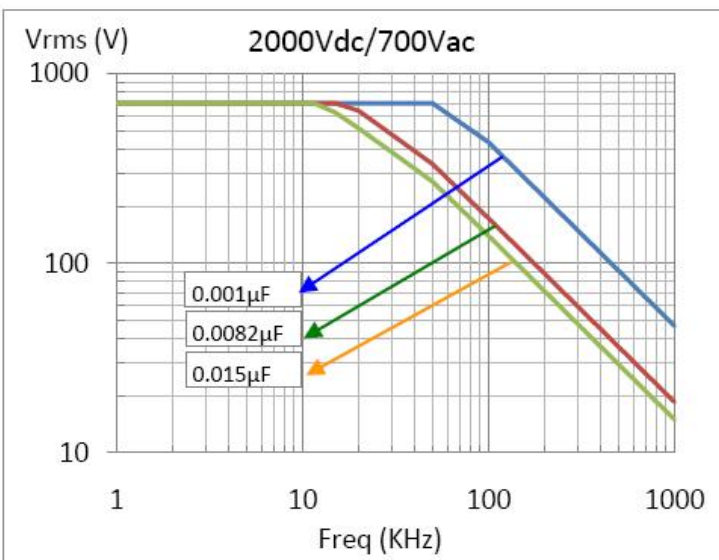
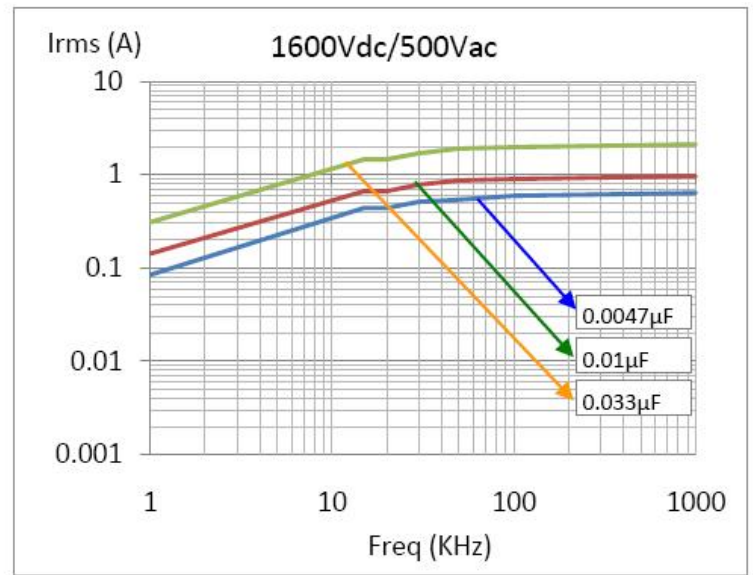
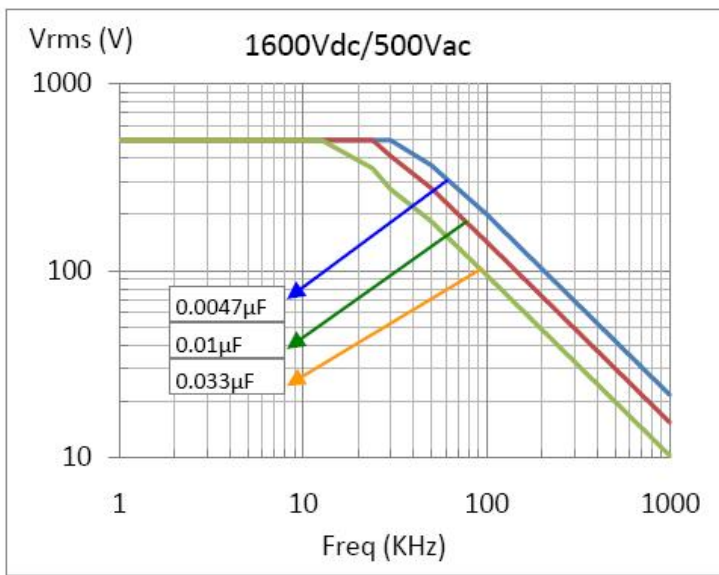
≥ 30 000 s

Max. Voltage (Vrms) Vs Frequency
(Sinusoidal Waveform at T ≤ 85°C)



Max. Current (Irms) Vs Frequency
(Sinusoidal Waveform at T ≤ 85°C)





Ordering code and packing units: AC & pulse Metallised polypropylene Film capacitor (MMPP -BOX TYPE)

Rated voltage	Rated Cap.(mfd)	Maximum Dimensions(mm)						Dv/dt V / μ s	Weight in gm	Ordering code	Packing Ammo	Bulk
		W	H	L	d	S	F					
					± 0.02	± 0.5	0.8/-0.2					
1250VDC	0.0082	6	11.9	18	0.8	15	15	3300	1.5	66 822 +3B*^A	1100	1000
500VAC	0.01	6	11.9	18	0.8	15	15	3300	1.5	66 103 +3B*^A	1100	1000
	0.012	7.5	13.5	18	0.8	15	15	3300	2	66 123 +3B*^A	900	1000
	0.015	7.5	13.5	18	0.8	15	15	3300	2	66 153 +3B*^A	900	1000
	0.018	7.5	13.5	18	0.8	15	15	3300	2	66 183 +3B*^A	900	1000
	0.022	8.5	14.5	18	0.8	15	15	3300	2.6	66 223 +3B*^A	700	1000
	0.027	10	16	18	0.8	15	15	3300	2.8	66 273 +3B*^A	700	1000
	0.027	6	15	26.5	0.8	22.5	22.5	2100	2.8	66 273 +3B*^A	650	400
	0.033	7	16	26.5	0.8	22.5	22.5	2100	3.5	66 333 +3B*^A	650	400
	0.039	7	16	26.5	0.8	22.5	22.5	2100	3.5	66 393 +3B*^A	650	400
	0.047	8.5	17	26.5	0.8	22.5	22.5	2100	4.5	66 473 +3B*^A	500	400
	0.056	10	18.5	26.5	0.8	22.5	22.5	2100	5.4	66 563 +3B*^A	-	200
	0.068	10	18.5	26.5	0.8	22.5	22.5	2100	5.4	66 683 +3B*^A	-	200
1600VDC	0.0033	5	10.8	18	0.8	15	15	6000	1.1	66 332 +3C*^A	1100	1000
500VAC	0.0039	5	10.8	18	0.8	15	15	6000	1.1	66 392 +3C*^A	1100	1000
	0.0047	5	10.8	18	0.8	15	15	6000	1.1	66 472 +3C*^A	1100	1000
	0.0056	5	10.8	18	0.8	15	15	6000	1.1	66 562 +3C*^A	1100	1000
	0.0068	5	10.8	18	0.8	15	15	6000	1.1	66 682 +3C*^A	1100	1000
	0.0082	6	11.9	18	0.8	15	15	6000	1.5	66 822 +3C*^A	1100	1000
	0.01	6	11.9	18	0.8	15	15	6000	1.5	66 103 +3C*^A	1100	1000
	0.012	7.5	13.5	18	0.8	15	15	6000	2	66 123 +3C*^A	900	1000
	0.015	7.5	13.5	18	0.8	15	15	6000	2	66 153 +3C*^A	900	1000
	0.018	8.5	14.5	18	0.8	15	15	6000	2.6	66 183 +3C*^A	700	1000
	0.027	10	16	18	0.8	15	15	6000	2.8	66 273 +3C*^A	700	1000
	0.015	6	15	26.5	0.8	22.5	22.5	3000	2.8	66 153 +3C*^A	650	400
	0.018	6	15	26.5	0.8	22.5	22.5	3000	2.8	66 183 +3C*^A	650	400
	0.022	6	15	26.5	0.8	22.5	22.5	3000	2.8	66 223 +3C*^A	650	400
	0.027	6	15	26.5	0.8	22.5	22.5	3000	2.8	66 273 +3C*^A	650	400
	0.033	7	16	26.5	0.8	22.5	22.5	3000	3.5	66 333 +3C*^A	650	400
	0.039	8.5	17	26.5	0.8	22.5	22.5	3000	4.5	66 393 +3C*^A	500	400
	0.047	10	18.5	26.5	0.8	22.5	22.5	3000	5.4	66 473 +3C*^A	-	200
	0.056	10	18.5	26.5	0.8	22.5	22.5	3000	5.4	66 563 +3C*^A	-	200
2000VDC	0.0002	5	10.8	18	0.8	15	15	9500	1.1	66 221 +3D*^A	1100	1000
700VAC	0.0003	5	10.8	18	0.8	15	15	9500	1.1	66 271 +3D*^A	1100	1000
	0.0003	5	10.8	18	0.8	15	15	9500	1.1	66 331 +3D*^A	1100	1000
	0.0004	5	10.8	18	0.8	15	15	9500	1.1	66 391 +3D*^A	1100	1000
	0.0005	5	10.8	18	0.8	15	15	9500	1.1	66 471 +3D*^A	1100	1000
	0.0006	5	10.8	18	0.8	15	15	9500	1.1	66 561 +3D*^A	1100	1000
	0.0007	5	10.8	18	0.8	15	15	9500	1.1	66 681 +3D*^A	1100	1000
	0.0008	5	10.8	18	0.8	15	15	9500	1.1	66 821 +3D*^A	1100	1000
	0.001	5	10.8	18	0.8	15	15	9500	1.1	66 102 +3D*^A	1100	1000
	0.0012	5	10.8	18	0.8	15	15	9500	1.1	66 122 +3D*^A	1100	1000
	0.0015	5	10.8	18	0.8	15	15	9500	1.1	66 152 +3D*^A	1100	1000
	0.0018	5	10.8	18	0.8	15	15	9500	1.1	66 182 +3D*^A	1100	1000
	0.0022	5	10.8	18	0.8	15	15	9500	1.1	66 222 +3D*^A	1100	1000
	0.0027	5	10.8	18	0.8	15	15	9500	1.1	66 272 +3D*^A	1100	1000
	0.0033	6	11.9	18	0.8	15	15	9500	1.5	66 332 +3D*^A	1100	1000

	0.0039	6	11.9	18	0.8	15	15	9500	1.5	66 392 +3D*^A	1100	1000
	0.0047	6	11.9	18	0.8	15	15	9500	1.5	66 472 +3D*^A	1100	1000
	0.0056	7.5	13.5	18	0.8	15	15	9500	2	66 562 +3D*^A	900	1000
	0.0068	7.5	13.5	18	0.8	15	15	9500	2	66 682 +3D*^A	900	1000
	0.0082	8.5	14.5	18	0.8	15	15	9500	2.6	66 822 +3D*^A	700	1000
	0.01	10	16	18	0.8	15	15	9500	2.8	66 132 +3D*^A	700	1000
	0.001	6	15	26.5	0.8	22.5	22.5	3500	2.8	66 102 +3D*^A	650	400
	0.0012	6	15	26.5	0.8	22.5	22.5	3500	2.8	66 122 +3D*^A	650	400
	0.0015	6	15	26.5	0.8	22.5	22.5	3500	2.8	66 152 +3D*^A	650	400
	0.0018	6	15	26.5	0.8	22.5	22.5	3500	2.8	66 182 +3D*^A	650	400
	0.0022	6	15	26.5	0.8	22.5	22.5	3500	2.8	66 222 +3D*^A	650	400
	0.0027	6	15	26.5	0.8	22.5	22.5	3500	2.8	66 272 +3D*^A	650	400
	0.0033	6	15	26.5	0.8	22.5	22.5	3500	2.8	66 332 +3D*^A	650	400
	0.0039	6	15	26.5	0.8	22.5	22.5	3500	2.8	66 392 +3D*^A	650	400
	0.0047	6	15	26.5	0.8	22.5	22.5	3500	2.8	66 472 +3D*^A	650	400
	0.0056	6	15	26.5	0.8	22.5	22.5	3500	2.8	66 562 +3D*^A	650	400
	0.0068	6	15	26.5	0.8	22.5	22.5	3500	2.8	66 682 +3D*^A	650	400
	0.0082	6	15	26.5	0.8	22.5	22.5	3500	2.8	66 822 +3D*^A	650	400
	0.01	6	15	26.5	0.8	22.5	22.5	3500	2.8	66 103 +3D*^A	650	400
	0.012	6	15	26.5	0.8	22.5	22.5	3500	2.8	66 123 +3D*^A	650	400
	0.015	7	16	26.5	0.8	22.5	22.5	3500	3.5	66 153 +3D*^A	650	400
	0.022	8.5	17	26.5	0.8	22.5	22.5	3500	4.5	66 223 +3D*^A	500	400
	0.027	10	18.5	26.5	0.8	22.5	22.5	3500	5.4	66 273 +3D*^A	-	200

- The dv/dt test is carried out for 2 times above value

Ordering code and packing units: AC & pulse Metallised polypropylene Film capacitor (MMPP-Dip type)

Rated voltage	Rated Cap. (µfd)	Maximum Dimensions (mm)						Dv/dt V /µs	Weight In gm	Ordering code	Packing Ammo	Bulk
		W	H	L	d ±0.02	S ±0.5	F 0.8/-0.2					
1250VDC	0.0082	6.5	12.5	19	0.8	15	15	3300	1.5	61 822 +3B*^A	1100	1000
500VAC	0.01	7	12.5	19	0.8	15	15	3300	1.6	61 103 +3B*^A	1100	1000
	0.012	8	14	19	0.8	15	15	3300	1.8	61 123 +3B*^A	900	1000
	0.015	8	15	19	0.8	15	15	3300	1.8	61 153 +3B*^A	900	1000
	0.018	8	15	19	0.8	15	15	3300	2	61 183 +3B*^A	900	1000
	0.022	9	16	19	0.8	15	15	3300	2	61 223 +3B*^A	700	1000
	0.027	10	17	19	0.8	15	15	3300	2.6	61 273 +3B*^A	700	1000
	0.033	12	18	19	0.8	15	15	3300	2.8	61 333 +3B*^A	650	1000
	0.039	12	18	19	0.8	15	15	3300	2.8	61 393 +3B*^A	650	1000
	0.027	7	15	27	0.8	22.5	22.5	2100	4.5	61 273 +3B*^A	650	400
	0.033	8	16.5	27	0.8	22.5	22.5	2100	4.5	61 333 +3B*^A	650	400
	0.039	9	16	27	0.8	22.5	22.5	2100	4.5	61 393 +3B*^A	650	400
	0.047	9.5	17	27	0.8	22.5	22.5	2100	4.5	61 473 +3B*^A	500	400
	0.056	10.5	19	27	0.8	22.5	22.5	2100	4.5	61 563 +3B*^A	-	200
	0.068	10.5	19	27	0.8	22.5	22.5	2100	4.5	61 683 +3B*^A	-	200
	0.082	10.5	19	27	0.8	22.5	22.5	2100	4.5	61 823 +3B*^A	-	200
1600VDC	0.0033	5.5	11.5	19	0.8	15	15	6000	1.1	61 332 +3C*^A	1100	1000
500VAC	0.0039	5.5	11.5	19	0.8	15	15	6000	1.1	61 392 +3C*^A	1100	1000
	0.0047	5.5	11.5	19	0.8	15	15	6000	1.1	61 472 +3C*^A	1100	1000
	0.0056	5.5	11.5	19	0.8	15	15	6000	1.1	61 562 +3C*^A	1100	1000
	0.0068	5.5	11.5	19	0.8	15	15	6000	1.1	61 682 +3C*^A	1100	1000
	0.0082	6.5	12.5	19	0.8	15	15	6000	1.5	61 822 +3C*^A	1100	1000
	0.01	6.5	12.5	19	0.8	15	15	6000	1.5	61 103 +3C*^A	1100	1000

	0.012	8	14	19	0.8	15	15	6000	2	61 123 +3C*^	900	1000
	0.015	8	14	19	0.8	15	15	6000	2	61 153 +3C*^	900	1000
	0.018	9	15	19	0.8	15	15	6000	2.6	61 183 +3C*^	700	1000
	0.022	9	16	19	0.8	15	15	6000	2.8	6 223 +3C*^	700	1000
	0.027	10.5	17	19	0.8	15	15	6000	2.8	61 273 +3C*^	700	1000
	0.015	6.5	15.5	27	0.8	22.5	22.5	3000	2.8	61 153 +3C*^	650	400
	0.018	6.5	15.5	27	0.8	22.5	22.5	3000	2.8	61 183 +3C*^	650	400
	0.022	6.5	15.5	27	0.8	22.5	22.5	3000	2.8	61 223 +3C*^	650	400
	0.027	6.5	15.5	27	0.8	22.5	22.5	3000	2.8	61 273 +3C*^	650	400
	0.033	7.5	17	27	0.8	22.5	22.5	3000	3.5	61 333 +3C*^	650	400
	0.039	9	18	27	0.8	22.5	22.5	3000	4.5	61 393 +3C*^	500	400
	0.047	10.5	19	27	0.8	22.5	22.5	3000	5.4	61 473 +3C*^	-	200
	0.056	10.5	19	27	0.8	22.5	22.5	3000	5.4	61 563 +3C*^	-	200
2000VDC	0.00022	5.5	11.5	19	0.8	15	15	9500	1.1	61 221 +3D*^	1100	1000
700VAC	0.00027	5.5	11.5	19	0.8	15	15	9500	1.1	61 271 +3D*^	1100	1000
	0.00033	5.5	11.5	19	0.8	15	15	9500	1.1	61 331 +3D*^	1100	1000
	0.00039	5.5	11.5	19	0.8	15	15	9500	1.1	61 391 +3D*^	1100	1000
	0.00047	5.5	11.5	19	0.8	15	15	9500	1.1	61 471 +3D*^	1100	1000
	0.00056	5.5	11.5	19	0.8	15	15	9500	1.1	61 561 +3D*^	1100	1000
	0.00068	5.5	11.5	19	0.8	15	15	9500	1.1	61 681 +3D*^	1100	1000
	0.00082	5.5	11.5	19	0.8	15	15	9500	1.1	61 821 +3D*^	1100	1000
	0.001	5.5	11.5	19	0.8	15	15	9500	1.1	61 102 +3D*^	1100	1000
	0.0015	5.5	11.5	19	0.8	15	15	9500	1.1	61 152 +3D*^	1100	1000
	0.0018	5.5	11.5	19	0.8	15	15	9500	1.1	61 182 +3D*^	1100	1000
	0.0022	5.5	11.5	19	0.8	15	15	9500	1.1	61 222 +3D*^	1100	1000
	0.0027	5.5	11.5	19	0.8	15	15	9500	1.1	61 272 +3D*^	1100	1000
	0.0033	6.5	12.5	19	0.8	15	15	9500	1.5	61 332 +3D*^	1100	1000
	0.0039	6.5	12.5	19	0.8	15	15	9500	1.5	61 392 +3D*^	1100	1000
	0.0047	6.5	12.5	19	0.8	15	15	9500	1.5	61 472 +3D*^	1100	1000
	0.0056	8	14	19	0.8	15	15	9500	2	61 562 +3D*^	900	1000
	0.0068	8	14	19	0.8	15	15	9500	2	61 682 +3D*^	900	1000
	0.0082	9	15	19	0.8	15	15	9500	2.6	61 822 +3D*^	700	1000
	0.01	10.5	16.5	19	0.8	15	15	9500	2.8	61 103 +3D*^	700	1000
	0.001	6.5	15.5	27	0.8	22.5	22.5	3500	2.8	61 102 +3D*^	650	400
	0.0015	6.5	15.5	27	0.8	22.5	22.5	3500	2.8	61 152 +3D*^	650	400
	0.0018	6.5	15.5	27	0.8	22.5	22.5	3500	2.8	61 182 +3D*^	650	400
	0.0022	6.5	15.5	27	0.8	22.5	22.5	3500	2.8	61 222 +3D*^	650	400
	0.0027	6.5	15.5	27	0.8	22.5	22.5	3500	2.8	61 272 +3D*^	650	400
	0.0033	6.5	15.5	27	0.8	22.5	22.5	3500	2.8	61 332 +3D*^	650	400
	0.0039	6.5	15.5	27	0.8	22.5	22.5	3500	2.8	61 392 +3D*^	650	400
	0.0047	6.5	15.5	27	0.8	22.5	22.5	3500	2.8	61 472 +3D*^	650	400
	0.0056	6.5	15.5	27	0.8	22.5	22.5	3500	2.8	61 562 +3D*^	650	400
	0.0068	6.5	15.5	27	0.8	22.5	22.5	3500	2.8	61 682 +3D*^	650	400
	0.0082	6.5	15.5	27	0.8	22.5	22.5	3500	2.8	61 822 +3D*^	650	400
	0.01	6.5	15.5	27	0.8	22.5	22.5	3500	2.8	61 103 +3D*^	650	400
	0.015	7.5	16.5	27	0.8	22.5	22.5	3500	3.5	61 153 +3D*^	650	400
	0.018	8.5	17.5	27	0.8	22.5	22.5	3500	4.5	61 183 +3D*^	500	400
	0.022	9	17.5	27	0.8	22.5	22.5	3500	5	61 223 +3D*^	500	400
	0.027	10.5	18.5	27	0.8	22.5	22.5	3500	5.4	61 273 +3D*^	500	400
	0.033	11.5	20	27	0.8	22.5	22.5	3500	5.4	61 333 +3D*^	-	200

* The dv/dt test is carried out for 2 times above value