

AC PULSE & METALLISED POLYPROPYLENE FILM APACITORS (PP/MPP)

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, impregnated polypropylene Film, aluminum foil and metallized polypropylene film as internal electrodes coated by hard, water repellent, solvent resistant epoxy resin or enclosed in a flame retardant box.

CLIMATIC CATEGORY

40/100/56

APPLICABLE SPECIFICATION

IEC 384-17,

CAPACITANCE VALUE & RATED VOLTAGE (DC)

Refer dimension chart.

CAPACITANCE TOLERANCE

±2%, ±5%, ±10%

VOLTAGE PROOF

Between terminals: 1.6 times of rated voltage for 2 seconds.

INSULATIONRESISTANCE

Between leads > 100000 MΩ

Between interconnected leads and case >100000MΩ

TAN μ (DISSIPATION FACTOR) AT 20°C (Dip type)

Frequency (kHz) $C_R < 0.1 \text{ mfd}$ $0.1\text{mfd} < C_R \leq 1 \text{ mfd}$

At 1 0.05% 0.08%

At 10 0.1% 0.1%

At 100 KHz 0.3% 0.5%

TAN μ (DISSIPATION FACTOR) AT 20°C(Box type)

Frequency (kHz) $C_R < 0.1 \text{ mfd}$ $0.1\text{mfd} < C_R \leq 1 \text{ mfd}$

At 1 0.03% 0.03%

At 10 0.04% 0.06%

At 100 KHz 0.1% -

LIFE TEST CONDITIONS (DC):(Loading at elevated temperature) Loaded at 1.25 times the rated DC voltage at 85° C for 1000 hours.

Criteria after the test:

Uc/c: ≤ 5% of initial value.

Increase of Tan μ : ≤ 0.002

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

LIFE TEST CONDITIONS (AC):(Loading at elevated temperature) Loaded at 1.25 times of rated AC voltage at 70° C for 1000 hours.

Criteria after the test:

Uc/c: ≤ 5% of initial value.

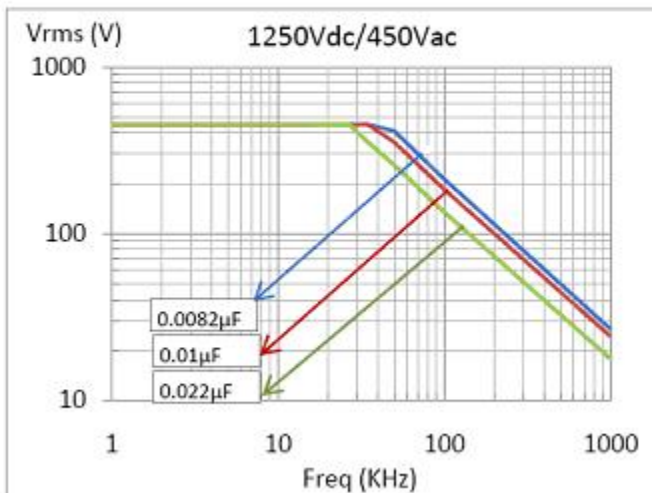
Increase of Tan μ : ≤ 0.002, $C_R \leq 1\mu\text{F}$

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

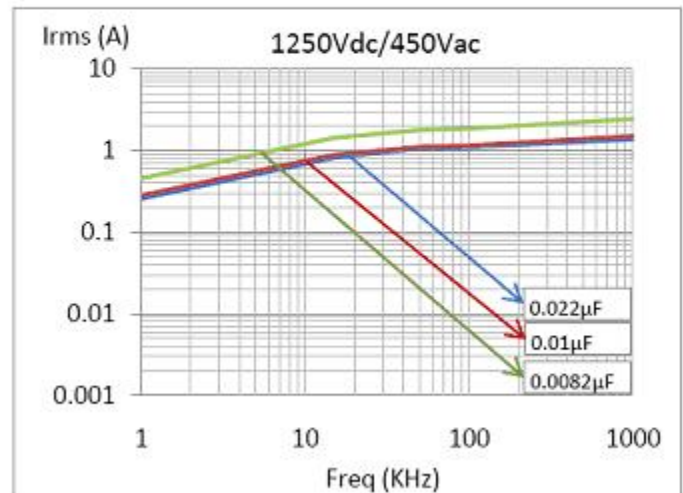
APPROVALS

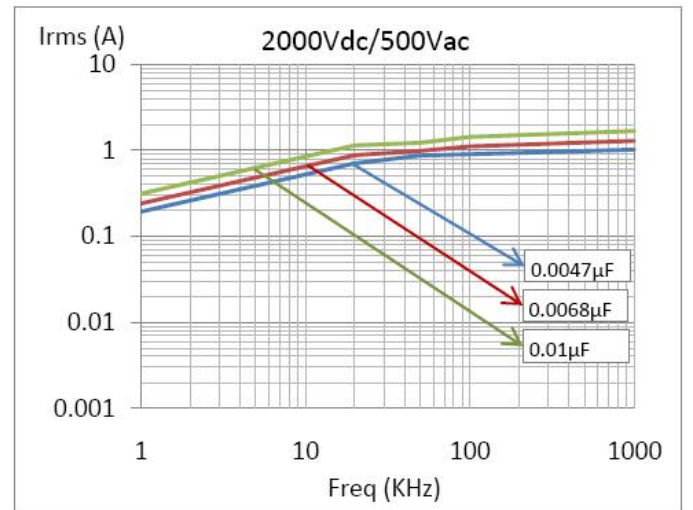
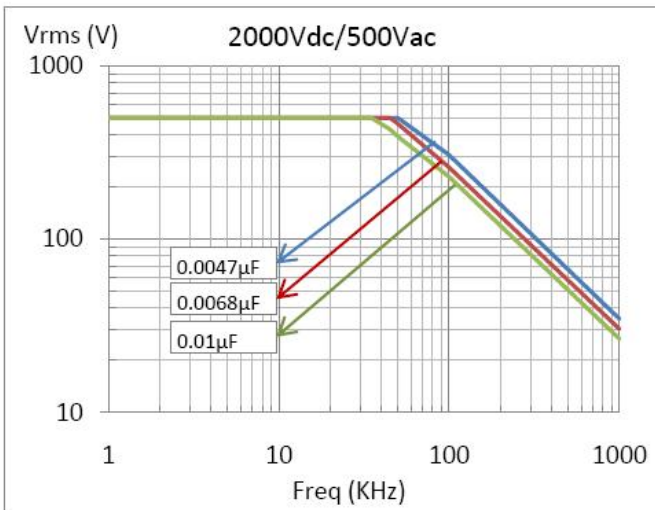
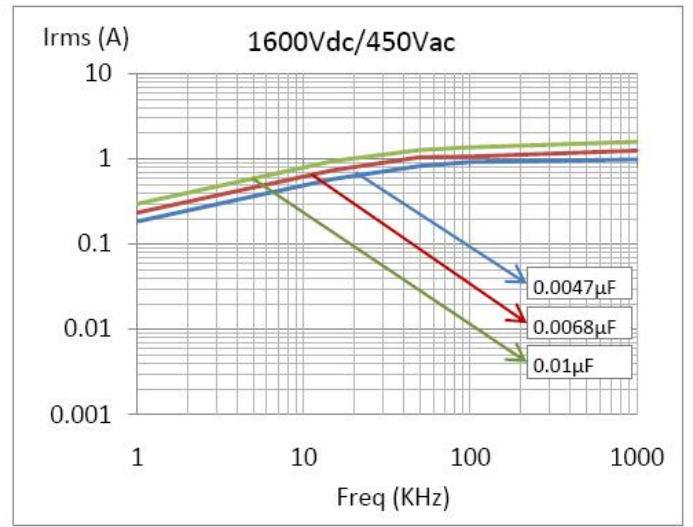
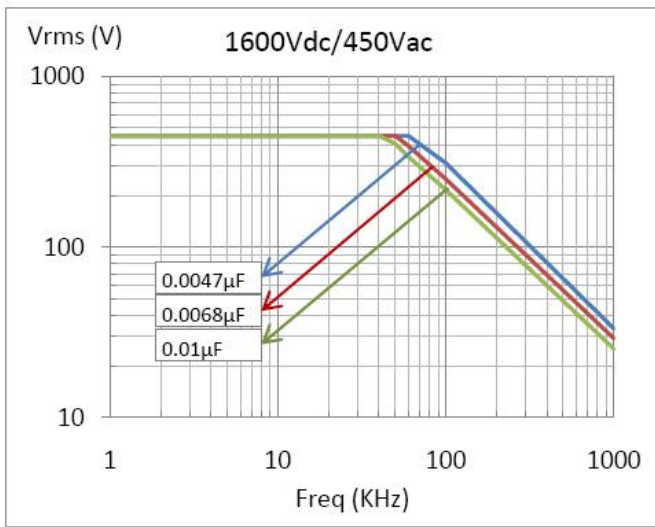
Capacitors are tested as per IEC 384-17

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 and pulse PP/MPP capacitor (Box 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	S	F					
					±0.02	±0.5	0.8/-0.2					
1000VDC	0.0033	5	10.8	18	0.8	15	15	28000	1.1	29 332 +3A^A	1100	1000
400VAC	0.0039	5	10.8	18	0.8	15	15	28000	1.1	29 392 +3A^A	1100	1000
	0.0047	5	10.8	18	0.8	15	15	28000	1.1	29 472 +3A^A	1100	1000
	0.0056	5	10.8	18	0.8	15	15	28000	1.1	29 562 +3A^A	1100	1000
	0.0068	5	10.8	18	0.8	15	15	28000	1.1	29 682 +3A^A	1100	1000
	0.0082	5	10.8	18	0.8	15	15	28000	1.1	29 822 +3A^A	1100	1000
	0.01	6	12	18	0.8	15	15	28000	1.5	29 103 +3A^A	1100	1000
	0.012	6	12	18	0.8	15	15	28000	1.5	29 123 +3A^A	1100	1000
	0.015	7.5	13.5	18	0.8	15	15	28000	2	29 153 +3A^A	1100	1000
	0.018	8.5	14.5	18	0.8	15	15	28000	2.6	29 183 +3A^A	900	1000
	0.022	8.5	14.5	18	0.8	15	15	28000	3	29 223 +3A^A	700	1000
	0.027	10	16	18	0.8	15	15	28000	3.5	29 273 +3A^A	700	1000
	0.015	6	15	26.5	0.8	22.5	22.5	11000	2.4	29 153 +3A^A	650	400
	0.018	6	15	26.5	0.8	22.5	22.5	11000	2.5	29 183 +3A^A	650	400
	0.022	6	15	26.5	0.8	22.5	22.5	11000	2.7	29 223 +3A^A	650	400
	0.027	7	16	26.5	0.8	22.5	22.5	11000	3.2	29 273 +3A^A	650	400
	0.033	7	16	26.5	0.8	22.5	22.5	11000	3.5	29 333 +3A^A	650	400
	0.039	8.5	17	26.5	0.8	22.5	22.5	11000	3.8	29 393 +3A^A	650	400
	0.047	8.5	17	26.5	0.8	22.5	22.5	11000	4.2	29 473 +3A^A	500	400
	0.056	10	18.5	26.5	0.8	22.5	22.5	11000	4.7	29 563 +3A^A	500	400
1250VDC	0.0022	5	10.8	18	0.8	22.5	22.5	11000	1.1	29 222 +3B^A	1100	1000
450VAC	0.0027	5	10.8	18	0.8	15	15	30000	1.1	29 272 +3B^A	1100	1000
	0.0033	6	11.9	18	0.8	15	15	30000	1.5	29 332 +3B^A	1100	1000
	0.0039	6	11.9	18	0.8	15	15	30000	1.5	29 392 +3B^A	1100	1000
	0.0047	7.5	13.5	18	0.8	15	15	30000	1.9	29 472 +3B^A	1100	1000
	0.0056	5	11.5	18	0.8	15	15	30000	1	29 562 +3B^A	1100	1000
	0.0068	8.5	14.5	18	0.8	15	15	30000	2	29 682 +3B^A	1100	1000
	0.0082	10	16	18	0.8	15	15	30000	2.2	29 822 +3B^A	1100	1000
	0.0082	6	15	26.5	0.8	15	15	30000	2.2	29 822 +3B^A	650	400
	0.01	6	15	26.5	0.8	22.5	22.5	11000	2.3	29 103 +3B^A	650	400
	0.012	6	15	26.5	0.8	22.5	22.5	11000	2.5	29 123 +3B^A	650	400
	0.015	7	16	26.5	0.8	22.5	22.5	11000	2.9	29 153 +3B^A	650	400
	0.018	7	16	26.5	0.8	22.5	22.5	11000	3.1	29 183 +3B^A	650	400
	0.022	8.5	17	26.5	0.8	22.5	22.5	11000	3.3	29 223 +3B^A	650	400
	0.027	10	18.5	26.5	0.8	22.5	22.5	11000	3.7	29 273 +3B^A	500	400
	0.033	10	18.5	26.5	0.8	22.5	22.5	11000	4.1	29 333 +3B^A	500	400
1600VDC	0.001	5	10.8	18	0.8	22.5	22.5	11000	1.1	29 102 +3C^A	1100	1000
450VAC	0.0012	5	10.8	18	0.8	15	15	34000	1.1	29 122 +3C^A	1100	1000
	0.0015	5	10.8	18	0.8	15	15	34000	1.1	29 152 +3C^A	1100	1000
	0.0018	5	10.8	18	0.8	15	15	34000	1.1	29 182 +3C^A	1100	1000
	0.0022	6	11.9	18	0.8	15	15	34000	1.5	29 222 +3C^A	1100	1000
	0.0027	6	11.9	18	0.8	15	15	34000	1.5	29 272 +3C^A	1100	1000
	0.0033	7.5	13.5	18	0.8	15	15	34000	2.1	29 332 +3C^A	1100	1000
	0.0039	7.5	13.5	18	0.8	15	15	34000	2.3	29 392 +3C^A	1100	1000
	0.0047	8.5	14.5	18	0.8	15	15	34000	2.4	29 472 +3C^A	900	1000
	0.0056	10	16	18	0.8	15	15	34000	2.6	29 562 +3C^A	900	1000
	0.0068	10	16	18	0.8	15	15	34000	3	29 682 +3C^A	700	1000

	0.0056	6	15	26.5	0.8	22.5	22.5	34000	2.4	29 562 +3C*^	650	400
	0.0068	6	15	26.5	0.8	22.5	22.5	11000	2.5	29 682 +3C*^	650	400
	0.0082	6	15	26.5	0.8	22.5	22.5	11000	2.7	29 822 +3C*^	650	400
	0.01	6	15	26.5	0.8	22.5	22.5	11000	2.9	29 103 +3C*^	650	400
	0.012	7	16	26.5	0.8	22.5	22.5	11000	3.2	29 123 +3C*^	500	400
	0.015	8.5	17	26.5	0.8	22.5	22.5	11000	3.8	29 153 +3C*^	500	400
	0.018	8.5	17	26.5	0.8	22.5	22.5	11000	4.2	29 183 +3C*^	500	400
	0.022	10	18.5	26.5	0.8	22.5	22.5	11000	4.7	29 223 +3C*^	-	200
2000VDC	0.0001	5	10.8	18	0.8	15	15	11000	1.1	29 101 +3D*^	1100	1000
500VAC	0.0002	5	10.8	18	0.8	15	15	54000	1.1	29 151 +3D*^	1100	1000
	0.0002	5	10.8	18	0.8	15	15	54000	1.1	29 221 +3D*^	1100	1000
	0.0003	5	10.8	18	0.8	15	15	54000	1.1	29 331 +3D*^	1100	1000
	0.0005	5	10.8	18	0.8	15	15	54000	1.1	29 471 +3D*^	1100	1000
	0.0007	5	10.8	18	0.8	15	15	54000	1.1	29 681 +3D*^	1100	1000
	0.001	6	11.9	19	0.8	15	15	54000	1.5	29 102 +3D*^	1100	1000
	0.0012	6	11.9	19	0.8	15	15	54000	1.5	29 122 +3D*^	1100	1000
	0.0015	7.5	13.5	19	0.8	15	15	54000	1.9	29 152 +3D*^	1100	1000
	0.0018	7.5	13.5	19	0.8	15	15	54000	2	29 182 +3D*^	1100	1000
	0.0022	8.5	14.5	19	0.8	15	15	54000	2.2	29 222 +3D*^	1100	1000
	0.0027	10	16	19	0.8	15	15	54000	2.4	29 272 +3D*^	900	1000
	0.0027	6	15	26.5	0.8	15	15	54000	2.2	29 272 +3D*^	650	400
	0.0033	6	15	26.5	0.8	22.5	22.5	11000	2.3	29 332 +3D*^	650	400
	0.0039	6	15	26.5	0.8	22.5	22.5	11000	2.4	29 392 +3D*^	650	400
	0.0047	6	15	26.5	0.8	22.5	22.5	11000	2.7	29 472 +3D*^	650	400
	0.0056	8.5	17	26.5	0.8	22.5	22.5	11000	2.9	29 562 +3D*^	650	400
	0.0068	8.5	17	26.5	0.8	22.5	22.5	11000	3.1	29 682 +3D*^	650	400
	0.0082	8.5	17	26.5	0.8	22.5	22.5	11000	3.3	29 822 +3D*^	650	400
	0.01	10	18.5	26.5	0.8	22.5	22.5	11000	3.7	29 103 +3D*^	500	400

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

Ordering code and packing units: AC and pulse PP/MPP capacitor (Dip type)

Rated voltage	Rated Cap.(µfd)	Maximum Dimensions(mm)						Dv/dt V/µs	Weight in gm	Ordering code	Packing	
		W	H	L	d	S	F				Ammo	Bulk
					±0.02	±0.5	0.8/-0.2					
1000VDC	0.0033	5	10	19	0.8	15	15	28000	1.1	05 332 +3A*^	1100	1000
400VAC	0.0039	5	10	19	0.8	15	15	28000	1.1	05 392 +3A*^	1100	1000
	0.0047	5	10	19	0.8	15	15	28000	1.1	05 472 +3A*^	1100	1000
	0.0056	5	10	19	0.8	15	15	28000	1.1	05 562 +3A*^	1100	1000
	0.0068	5	10	19	0.8	15	15	28000	1.1	05 682 +3A*^	1100	1000
	0.0082	6	11	19	0.8	15	15	28000	1.5	05 822 +3A*^	1100	1000
	0.01	6	11	19	0.8	15	15	28000	1.5	05 103 +3A*^	1100	1000
	0.012	6	11	19	0.8	15	15	28000	1.5	05 123 +3A*^	1100	1000
	0.015	6	13	19	0.8	15	15	28000	2.6	05 153 +3A*^	1100	1000
	0.018	7	14	19	0.8	15	15	28000	2.6	05 183 +3A*^	900	1000
	0.022	8	14	19	0.8	15	15	28000	3	05 223 +3A*^	700	1000
	0.027	8	15	19	0.8	15	15	28000	3.5	05 273 +3A*^	700	1000
	0.015	5	12	27	0.8	22.5	22.5	11000	2.4	05 153 +3A*^	650	400

	0.018	6	12	27	0.8	22.5	22.5	11000	2.5	05 183 +3A*^	650	400
	0.022	6	13	27	0.8	22.5	22.5	11000	2.7	05 223 +3A*^	650	400
	0.027	6	13	27	0.8	22.5	22.5	11000	3.2	05 273 +3A*^	650	400
	0.033	7	14	27	0.8	22.5	22.5	11000	3.5	05 333 +3A*^	650	400
	0.039	8	14	27	0.8	22.5	22.5	11000	3.8	05 393 +3A*^	650	400
	0.047	8	15	27	0.8	22.5	22.5	11000	4.2	05 473 +3A*^	500	400
	0.056	9	16	27	0.8	22.5	22.5	11000	4.7	05 563 +3A*^	500	400
	0.068	10	16	27	0.8	22.5	22.5	11000	5.3	05 683 +3A*^	-	200
1250VDC	0.0022	5	10	19	0.8	15	15	30000	1.1	05 222 +3B*^	1100	1000
450VAC	0.0027	5	10	19	0.8	15	15	30000	1.1	05 272 +3B*^	1100	1000
	0.0033	5	10	19	0.8	15	15	30000	1.1	05 332 +3B*^	1100	1000
	0.0039	5	10	19	0.8	15	15	30000	1.1	05 392 +3B*^	1100	1000
	0.0047	5	10	19	0.8	15	15	30000	1.1	05 472 +3B*^	1100	1000
	0.0056	5	12	19	0.8	15	15	30000	1.5	05 562 +3B*^	1100	1000
	0.0068	5	12	19	0.8	15	15	30000	1.5	05 682 +3B*^	1100	1000
	0.0082	6	12	19	0.8	15	15	30000	1.5	05 822 +3B*^	1100	1000
	0.0082	5	12	27	0.8	22.5	22.5	11000	2.2	05 822 +3B*^	650	400
	0.01	5	12	27	0.8	22.5	22.5	11000	2.3	05 103 +3B*^	650	400
	0.012	5	12	27	0.8	22.5	22.5	11000	2.5	05 123 +3B*^	650	400
	0.015	6	13	27	0.8	22.5	22.5	11000	2.9	05 153 +3B*^	650	400
	0.018	6	13	27	0.8	22.5	22.5	11000	3.1	05 183 +3B*^	650	400
	0.022	7	14	27	0.8	22.5	22.5	11000	3.3	05 223 +3B*^	650	400
	0.027	8	14	27	0.8	22.5	22.5	11000	3.7	05 273 +3B*^	500	400
	0.033	8	15	27	0.8	22.5	22.5	11000	4.1	05 333 +3B*^	500	400
1600VDC	0.001	5	10	19	0.8	15	15	34000	1.1	05 102 +3C*^	1100	1000
450VAC	0.0012	5	10	19	0.8	15	15	34000	1.1	05 122 +3C*^	1100	1000
	0.0015	5	10	19	0.8	15	15	34000	1.1	05 152 +3C*^	1100	1000
	0.0018	5	10	19	0.8	15	15	34000	1.1	05 182 +3C*^	1100	1000
	0.0022	6	11	19	0.8	15	15	34000	1.5	05 222 +3C*^	1100	1000
	0.0027	6	12	19	0.8	15	15	34000	1.5	05 272 +3C*^	1100	1000
	0.0033	6	13	19	0.8	15	15	34000	1.5	05 332 +3C*^	1100	1000
	0.0039	6	13	19	0.8	15	15	34000	2.3	05 392 +3C*^	1100	1000
	0.0047	7	13	19	0.8	15	15	34000	2.4	05 472 +3C*^	900	1000
	0.0056	7	14	19	0.8	15	15	34000	2.6	05 562 +3C*^	900	1000
	0.0068	8	15	19	0.8	15	15	34000	3	05 682 +3C*^	700	1000
	0.0056	6	12	27	0.8	22.5	22.5	11000	2.4	05 562 +3C*^	650	400
	0.0068	6	12	27	0.8	22.5	22.5	11000	2.5	05 682 +3C*^	650	400
	0.0082	6	13	27	0.8	22.5	22.5	11000	2.7	05 822 +3C*^	650	400
	0.01	7	13	27	0.8	22.5	22.5	11000	2.9	05 103 +3C*^	650	400
	0.012	7	14	27	0.8	22.5	22.5	11000	3.2	05 123 +3C*^	500	400
	0.015	8	15	27	0.8	22.5	22.5	11000	3.8	05 153 +3C*^	500	400
	0.018	9	16	27	0.8	22.5	22.5	11000	4.2	05 183 +3C*^	500	400
	0.022	10	16	27	0.8	22.5	22.5	11000	4.7	05 223 +3C*^	-	200

2000VDC	0.0001	4	9	19	0.8	15	15	54000	1.1	05 101 +3D*^	1100	1000
500VAC	0.0002	4	9	19	0.8	15	15	54000	1.1	05 151 +3D*^	1100	1000
	0.0002	4	9	19	0.8	15	15	54000	1.1	05 221 +3D*^	1100	1000
	0.0003	5	10	19	0.8	15	15	54000	1.1	05 331 +3D*^	1100	1000
	0.0005	5	10	19	0.8	15	15	54000	1.1	05 471 +3D*^	1100	1000
	0.0007	5	12	19	0.8	15	15	54000	1.1	05 681 +3D*^	1100	1000
	0.001	6	12	19	0.8	15	15	54000	1.5	05 102 +3D*^	1100	1000
	0.0012	5	12	19	0.8	15	15	54000	1.5	05 122 +3D*^	1100	1000
	0.0015	6.5	12.5	19	0.8	15	15	54000	1.5	05 152 +3D*^	1100	1000
	0.0018	6	12	19	0.8	15	15	54000	1.5	05 182 +3D*^	1100	1000
	0.0022	7.5	17.5	19	0.8	15	15	54000	2.2	05 222 +3D*^	1100	1000
	0.0027	7	13	19	0.8	15	15	54000	2.4	05 272 +3D*^	900	1000
	0.0027	5	12	27	0.8	22.5	22.5	11000	2.2	05 272 +3D*^	650	400
	0.0033	7	15	27	0.8	22.5	22.5	11000	2.3	05 332 +3D*^	650	400
	0.0039	6	12	27	0.8	22.5	22.5	11000	2.4	05 392 +3D*^	650	400
	0.0047	7.5	16.5	27	0.8	22.5	22.5	11000	2.7	05 472 +3D*^	650	400
	0.0056	8.5	18	27	0.8	22.5	22.5	11000	2.9	05 562 +3D*^	650	400
	0.0068	7	14	27	0.8	22.5	22.5	11000	3.1	05 682 +3D*^	650	400
	0.0082	7	14	27	0.8	22.5	22.5	11000	3.3	05 822 +3D*^	650	400
	0.01	10.5	19	27	0.8	22.5	22.5	11000	3.7	05 103 +3D*^	500	400
	0.012	10	20	27	0.8	22.5	22.5	11000	4	05 123 +3D*^	500	400