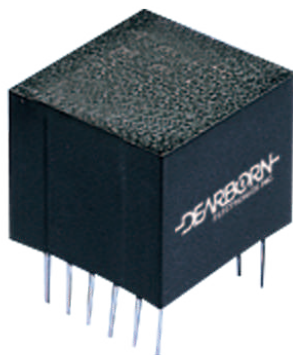


CAPACITORS FOR HIGH FREQUENCY SWITCH MODE POWER SUPPLIES



PHYSICAL CHARACTERISTICS

CONSTRUCTION:

Dielectric: Metalized Polyester (P.E.T.). Self healing, low inductance.

CASE:

Thermoplastic case. Epoxy resin molded.

LEAD MATERIAL:

DPM 94 - Surface mount device.

DPM 94 N - Termination are "DIL" leads.

MARKING:

Dearborn trademark, type or catalog number, capacitance, tolerance and voltage.

ELECTRICAL SPECIFICATIONS

OPERATING TEMPERATURE RANGE:

-55°C to +125°C

DISSIPATION FACTOR:

Maximum 1% @ 1kHz

INSULATION RESISTANCE:

$\geq 3,750 \text{ M}\Omega$ for $C_R \leq 0.33$ and $\leq 100 \text{ VDC}$

$\geq 7,500 \text{ M}\Omega$ for $C_R \leq 0.33$ and $> 100 \text{ VDC}$

$\geq 1,250 \text{ M}\Omega \cdot \mu\text{F}$ for $C_R > 0.33$ and $\leq 100 \text{ VDC}$

$\geq 2,500 \text{ M}\Omega \cdot \mu\text{F}$ or $C_R > 0.33$ and $> 100 \text{ VDC}$

DIELECTRIC WITHSTANDING VOLTAGE (DWV):

1.6 x rated voltage

INSULATION BETWEEN LEADS & CASE:

50,000 $\text{M}\Omega$

PERMISSIBLE CURRENT:

@ 300kHz up to 105°C = I_{rms}

@ 300kHz at 125°C = $0.1 I_{\text{rms}}$

AVAILABLE CAPACITANCE TOLERANCES:

$\pm 20\%$ & $\pm 10\%$

TOLERANCES FOR SMD LEADS ONLY

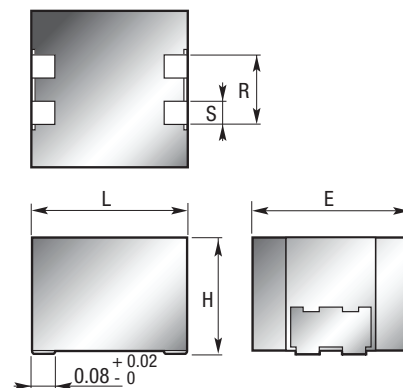
Model	R + / - 0.008	S + / - 0.008
DPM94-0	0.157	0.0394
DPM94-1	0.197	0.0591
DPM94-2	0.197	0.0591
DPM94-3	0.276	0.0787
DPM94-4	0.276	0.0787

TOLERANCES FOR DIL OUTPUTS ("N" MODELS ONLY)

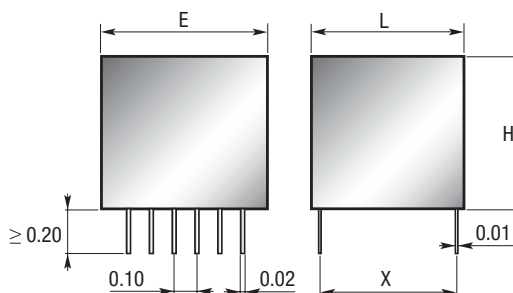
Model	X + / - 0.016	NB Connections
DPM94-N-0	0.200	0.30 x 0.08
DPM94-N-1	0.325	0.16 x 0.08
DPM94-N-2	0.551	0.16 x 0.08
DPM94-N-3	0.551	0.20 x 0.08
DPM94-N-4	0.600	0.24 x 0.08

DIMENSIONS (in inches)

TYPE DPM 94



TYPE DPM 94 N



CAPACITORS FOR HIGH FREQUENCY SWITCH MODE POWER SUPPLIES

TYPE DPM 94 / DPM 94-N

STANDARD RATINGS

TYPE DPM 94-0 / DPM 94-N-0										
Capacitance		Dimensions (in inches)			50 V	63 V	100 V	200 V	250 V	400 V
μF	Code	Max. "L"	Max. "E"	Max. "H"	(l. rms)	(l. rms)	(l. rms)	(l. rms)	(l. rms)	(l. rms)
0.0082	822	0.315	0.295	0.177	0.1	0.1	0.1	0.1	0.1	0.1
0.01	103	0.315	0.295	0.177	0.1	0.1	0.1	0.1	0.1	0.1
0.012	123	0.315	0.295	0.177	0.2	0.2	0.2	0.2	0.2	0.2
0.015	153	0.315	0.295	0.177	0.2	0.2	0.2	0.2	0.2	0.2
0.018	183	0.315	0.295	0.177	0.3	0.3	0.3	0.3	0.3	0.3
0.027	273	0.315	0.295	0.177	0.1	0.1	0.1	0.1	0.1	-
0.033	333	0.315	0.295	0.177	0.2	0.2	0.2	0.2	0.2	-
0.039	393	0.315	0.295	0.177	0.2	0.2	0.2	0.2	0.2	-
0.047	473	0.315	0.295	0.177	0.2	0.2	0.2	0.2	0.2	-
0.056	563	0.315	0.295	0.177	0.2	0.2	0.2	0.2	0.3	-
0.068	683	0.315	0.295	0.177	0.3	0.3	0.3	0.3	-	-
0.082	683	0.315	0.295	0.177	0.2	0.2	0.2	0.3	-	-
0.1	104	0.315	0.295	0.177	0.3	0.3	0.3	0.3	-	-
0.12	124	0.315	0.295	0.177	0.4	0.4	0.4	-	-	-
0.15	154	0.315	0.295	0.177	0.4	0.4	0.4	-	-	-
0.18	184	0.315	0.295	0.177	0.4	0.4	0.4	-	-	-
0.22	224	0.315	0.295	0.177	0.5	0.5	-	-	-	-
0.27	274	0.315	0.295	0.177	0.6	0.6	-	-	-	-
0.33	334	0.315	0.295	0.177	0.4	0.5	-	-	-	-
0.39	394	0.315	0.295	0.177	0.4	-	-	-	-	-
0.47	474	0.315	0.295	0.177	0.5	-	-	-	-	-
0.56	564	0.315	0.295	0.177	0.6	-	-	-	-	-
0.68	684	0.315	0.295	0.177	0.8	-	-	-	-	-
0.022	223	0.315	0.335	0.295	0.3	0.3	0.3	0.3	0.3	0.3
0.027	273	0.315	0.335	0.295	0.4	0.4	0.4	0.4	0.4	0.4
0.033	333	0.315	0.335	0.295	0.5	0.5	0.5	0.5	0.5	0.5
0.039	393	0.315	0.335	0.295	0.6	0.6	0.6	0.6	0.6	0.6
0.047	473	0.315	0.335	0.295	0.7	0.7	0.7	0.7	0.6	0.7
0.056	563	0.315	0.335	0.295	0.8	0.8	0.8	0.8	0.8	0.8
0.068	683	0.315	0.335	0.295	0.3	0.3	0.3	0.3	0.3	-
0.082	823	0.315	0.335	0.295	0.4	0.4	0.4	0.3	0.4	-
0.1	104	0.315	0.335	0.295	0.5	0.5	0.5	0.5	0.5	-
0.12	124	0.315	0.335	0.295	0.6	0.6	0.6	0.6	0.6	-
0.15	154	0.315	0.335	0.295	0.7	0.7	0.7	0.7	0.7	-
0.18	184	0.315	0.335	0.295	0.8	0.8	0.8	0.8	0.8	-
0.22	224	0.315	0.335	0.295	0.7	0.7	0.7	0.7	-	-
0.27	274	0.315	0.335	0.295	0.8	0.8	0.8	0.8	-	-
0.33	334	0.315	0.335	0.295	0.9	0.9	0.9	-	-	-
0.39	394	0.315	0.335	0.295	0.8	0.8	1	-	-	-
0.47	574	0.315	0.335	0.295	1	1	1.1	-	-	-
0.56	564	0.315	0.335	0.295	1.2	1.2	1.3	-	-	-
0.68	684	0.315	0.335	0.295	1.4	1.4	-	-	-	-
0.82	824	0.315	0.335	0.295	0.9	1.1	-	-	-	-
1	105	0.315	0.335	0.295	1.1	1.4	-	-	-	-
1.2	125	0.315	0.335	0.295	1.4	-	-	-	-	-
1.5	155	0.315	0.335	0.295	1.7	-	-	-	-	-
1.8	185	0.315	0.335	0.295	2	-	-	-	-	-

RMS current rated at 300kHz up to 105°C.

CAPACITORS FOR HIGH FREQUENCY SWITCH MODE POWER SUPPLIES

STANDARD RATINGS

TYPE DPM 94-1 / DPM 94-N-1										
Capacitance		Dimensions (in inches)			50 V	63 V	100 V	200 V	250 V	400 V
μF	Code	Max. "L"	Max. "E"	Max. "H"	(l. rms)	(l. rms)	(l. rms)	(l. rms)	(l. rms)	(l. rms)
0.1	104	0.421	0.421	0.236	0.8	0.8	0.8	0.8	0.8	0.8
0.22	224	0.421	0.421	0.236	0.8	0.8	0.8	0.8	0.8	-
0.27	274	0.421	0.421	0.236	1	1	1	1	1	-
0.33*	334	0.421	0.421	0.236	0.6	0.6	0.6	0.6	1.2	-
0.39	394	0.421	0.421	0.236	0.8	0.8	0.8	0.8	-	-
0.47	474	0.421	0.421	0.236	1	1	1	1	-	-
0.56	564	0.421	0.421	0.236	0.8	0.8	0.8	-	-	-
0.68	684	0.421	0.421	0.236	1	1	1	-	-	-
0.82	824	0.421	0.421	0.236	1.1	1.1	1.1	-	-	-
1	105	0.421	0.421	0.236	1.8	1.8	1.8	-	-	-
1.5	155	0.421	0.421	0.236	1.7	1.7	-	-	-	-
1.8	185	0.421	0.421	0.236	2.1	2.1	-	-	-	-
2.2	225	0.421	0.421	0.236	1.3	-	-	-	-	-
2.7	275	0.421	0.421	0.236	1.6	-	-	-	-	-
3.3	335	0.421	0.421	0.236	1.9	-	-	-	-	-
0.15	154	0.421	0.421	0.315	1.2	1.2	1.2	1.2	1.2	1.2
0.39	394	0.421	0.421	0.315	1.4	1.4	1.4	1.4	1.4	-
0.47	474	0.421	0.421	0.315	1.7	1.7	1.7	1.7	1.7	-
0.56	564	0.421	0.421	0.315	1.1	1.1	1.1	1.1	-	-
0.68	684	0.421	0.421	0.315	1.4	1.4	1.4	1.4	-	-
1.2	125	0.421	0.421	0.315	1.8	1.8	1.8	-	-	-
1.5	155	0.421	0.421	0.315	2.2	2.2	2.2	-	-	-
2.2	225	0.421	0.421	0.315	2.5	2.5	-	-	-	-
3.9	395	0.421	0.421	0.315	2.3	-	-	-	-	-
4.7	475	0.421	0.421	0.315	2.8	-	-	-	-	-
0.22	224	0.421	0.421	0.394	1.7	1.7	1.7	1.7	1.7	1.7
0.56	564	0.421	0.421	0.394	2	2	2	2	2	-
0.82	824	0.421	0.421	0.394	1.7	1.7	1.7	1.7	-	-
1.8	185	0.421	0.421	0.394	2.7	2.7	2.7	-	-	-
2.7	275	0.421	0.421	0.394	3.1	3.1	-	-	-	-
3.3	335	0.421	0.421	0.394	3.8	3.8	-	-	-	-
5.6	565	0.421	0.421	0.394	3.3	-	-	-	-	-
6.8	685	0.421	0.421	0.394	4.1	-	-	-	-	-
0.68	684	0.421	0.421	0.473	2.4	2.4	2.4	2.4	2.4	-
1	105	0.421	0.421	0.473	2.1	2.1	2.1	2.1	-	-
2.2	225	0.421	0.421	0.473	2.1	2.1	3.5	-	-	-
3.9	395	0.421	0.421	0.473	4.9	4.9	-	-	-	-
4.7	475	0.421	0.421	0.473	6	6	-	-	-	-
8.2	825	0.315	0.421	0.473	4.9	-	-	-	-	-
10	1005	0.315	0.421	0.473	6	-	-	-	-	-

RMS current rated at 300kHz up to 105°C.

CAPACITORS FOR HIGH FREQUENCY SWITCH MODE POWER SUPPLIES

TYPE DPM 94 / DPM 94-N

STANDARD RATINGS

TYPE DPM 94-2 / DPM 94-N-2										
Capacitance		Dimensions (in inches)			50 V	63 V	100 V	200 V	250 V	400 V
μF	Code	Max. "L"	Max. "E"	Max. "H"	(l. rms)	(l. rms)	(l. rms)	(l. rms)	(l. rms)	(l. rms)
0.22	224	0.61	0.453	0.236	0.8	0.8	0.8	0.8	0.8	0.8
0.27	274	0.61	0.453	0.236	1	1	1	1	1	1
0.47	474	0.61	0.453	0.236	0.8	0.8	0.8	0.8	0.8	-
0.56	564	0.61	0.453	0.236	0.9	0.9	0.9	0.9	0.9	-
0.68	684	0.61	0.453	0.236	1.1	1.1	1.1	1.1	1.1	-
0.82	824	0.61	0.453	0.236	0.8	0.8	0.8	0.8	-	-
1	105	0.61	0.453	0.236	1	1	1	1	-	-
1.5	155	0.61	0.453	0.236	1.1	1.1	1.1	-	-	-
1.8	185	0.61	0.453	0.236	1.4	1.4	1.4	-	-	-
2.2	225	0.61	0.453	0.236	1.7	1.7	1.7	-	-	-
3.3	335	0.61	0.453	0.236	1.9	1.9	-	-	-	-
3.9	395	0.61	0.453	0.236	2.3	2.3	-	-	-	-
4.7	475	0.61	0.453	0.236	1.4	-	-	-	-	-
5.6	565	0.61	0.453	0.236	1.7	-	-	-	-	-
6.8	685	0.61	0.453	0.236	2.1	-	-	-	-	-
0.33	334	0.61	0.453	0.315	1.2	1.2	1.2	1.2	1.2	1.2
0.39	394	0.61	0.453	0.315	1.4	1.4	1.4	1.4	1.4	1.4
0.82	824	0.61	0.453	0.315	1.3	1.3	1.3	1.3	1.3	-
1	105	0.61	0.453	0.315	1.6	1.6	1.6	1.6	1.6	-
1.2	125	0.61	0.453	0.315	1.2	1.2	1.2	1.2	-	-
1.5	155	0.61	0.453	0.315	1.5	1.5	1.5	1.5	-	-
2.7	275	0.61	0.453	0.315	2.1	2.1	2.1	-	-	-
4.7	475	0.61	0.453	0.315	2.8	2.8	-	-	-	-
8.2	825	0.61	0.453	0.315	2.5	-	-	-	-	-
10	106	0.61	0.453	0.315	3.1	-	-	-	-	-
12	126	0.61	0.453	0.315	3.7	-	-	-	-	-
0.47	224	0.61	0.453	0.394	1.7	1.7	1.7	1.7	1.7	1.7
1.2	125	0.61	0.453	0.394	2	2	2	2	2	-
1.5	1.5	0.61	0.453	0.394	2.5	2.5	2.5	2.5	2.5	-
1.8	185	0.61	0.453	0.394	1.8	1.8	1.8	1.8	-	-
3.3	335	0.61	0.453	0.394	2.5	2.5	2.5	-	-	-
5.6	565	0.61	0.453	0.394	3.3	3.3	-	-	-	-
15	156	0.61	0.453	0.394	4.6	-	-	-	-	-

RMS current rated at 300kHz up to 105°C.

CAPACITORS FOR HIGH FREQUENCY SWITCH MODE POWER SUPPLIES

STANDARD RATINGS

TYPE DPM 94-3 / DPM 94-N-3										
Capacitance		Dimensions (in inches)			50 V	63 V	100 V	200 V	250 V	400 V
μF	Code	Max. "L"	Max. "E"	Max. "H"	(l. rms)	(l. rms)	(l. rms)	(l. rms)	(l. rms)	(l. rms)
0.47	474	0.65	0.61	0.236	1.6	1.6	1.6	1.6	1.6	1.6
1	105	0.65	0.61	0.236	1.5	1.5	1.5	1.5	1.5	-
1.2	125	0.65	0.61	0.236	1.1	1.1	1.1	1.1	-	-
1.5	155	0.65	0.61	0.236	1.5	1.5	1.5	1.4	-	-
2.2	225	0.65	0.61	0.236	1.6	1.6	1.6	-	-	-
2.7	275	0.65	0.61	0.236	1.9	1.9	1.9	-	-	-
3.3	335	0.65	0.61	0.236	2.4	2.4	2.4	-	--	-
4.7	475	0.65	0.61	0.236	2.6	2.6	-	-	-	-
5.6	565	0.65	0.61	0.236	3.1	3.1	-	-	-	-
6.8	685	0.65	0.61	0.236	1.9	-	-	-	-	-
8.2	825	0.65	0.61	0.236	2.3	-	-	-	-	-
10	106	0.65	0.61	0.236	2.9	-	-	-	-	-
12	126	0.65	0.61	0.236	3.4	-	-	-	-	-
0.56	564	0.65	0.61	0.315	1.9	1.9	1.9	1.9	1.9	1.9
0.68	684	0.65	0.61	0.315	2.3	2.3	2.3	2.3	2.3	2.3
1.2	125	0.65	0.61	0.315	1.8	1.8	1.8	1.8	1.8	-
1.5	155	0.65	0.61	0.315	2.3	2.3	2.3	2.3	2.3	-
1.8	185	0.65	0.61	0.315	1.7	1.7	1.7	1.7	-	-
2.2	225	0.65	0.61	0.315	2.1	2.1	2.1	2.1	-	-
3.9	395	0.65	0.61	0.315	2.8	2.8	2.8	-	-	-
4.7	475	0.65	0.61	0.315	3.4	3.4	3.4	-	-	-
6.8	685	0.65	0.61	0.315	3.7	3.7	-	-	-	-
8.2	825	0.65	0.61	0.315	4.5	4.5	-	-	-	-
15	156	0.65	0.61	0.315	4.3	-	-	-	-	-
18	186	0.65	0.61	0.315	5.2	-	-	-	-	-
0.82	824	0.65	0.61	0.394	2.8	2.8	2.8	2.8	2.8	2.8
1.8	185	0.65	0.61	0.394	2.7	2.7	2.7	2.7	2.7	-
2.2	225	0.65	0.61	0.394	3.4	3.4	3.4	3.4	3.4	-
2.7	275	0.65	0.61	0.394	2.6	2.6	2.6	2.6	-	-
3.3	335	0.65	0.61	0.394	3.2	3.2	3.2	3.2	-	-
5.6	565	0.65	0.61	0.394	4	4	4	-	-	-
10	106	0.65	0.61	0.394	5.5	5.5	-	-	-	-
22	226	0.65	0.61	0.394	6.3	-	-	-	-	-
1	105	0.65	0.61	0.473	3.4	3.4	3.4	3.4	3.4	3.4
2.7	275	0.65	0.61	0.473	4.1	4.1	4.1	4.1	4.1	-
3.9	395	0.65	0.61	0.473	3.8	3.8	3.8	3.8	-	-
1	105	0.65	0.61	0.473	3.4	3.4	3.4	3.4	3.4	3.4
2.7	275	0.65	0.61	0.473	4.1	4.1	4.1	4.1	4.1	-
3.9	395	0.65	0.61	0.473	3.8	3.8	3.8	3.8	-	-
6.8	685	0.65	0.61	0.473	4.9	4.9	4.9	-	-	-
27	276	0.65	0.61	0.473	7.8	-	-	-	-	-
1.2	125	0.65	0.61	0.551	4	4	4	4	4	4
3.3	335	0.65	0.61	0.551	3.3	3.3	3.3	3.3	5	-
4.7	475	0.65	0.61	0.551	4.6	4.6	4.6	4.6	-	-
8.2	825	0.65	0.61	0.551	5.9	5.9	5.9	-	-	-
15	156	0.65	0.61	0.551	8.3	8.3	-	-	-	-
33	336	0.65	0.61	0.551	9.5	-	-	-	-	-
10	106	0.65	0.61	0.67	7.2	7.2	7.2	-	-	-

RMS current rated at 300kHz up to 105°C.

CAPACITORS FOR HIGH FREQUENCY SWITCH MODE POWER SUPPLIES

TYPE DPM 94 / DPM 94-N

STANDARD RATINGS

TYPE DPM 94-4 / DPM 94-N-4										
Capacitance		Dimensions (in inches)			50 V	63 V	100 V	200 V	250 V	400 V
µF	Code	Max. "L"	Max. "E"	Max. "H"	(l. rms)	(l. rms)	(l. rms)	(l. rms)	(l. rms)	(l. rms)
0.47	474	0.728	0.67	0.236	1.3	1.3	1.3	1.3	1.3	1.3
0.56	564	0.728	0.67	0.236	1.6	1.6	1.6	1.6	1.6	1.6
0.68	684	0.728	0.67	0.236	2	2	2	2	2	2
1	105	0.728	0.67	0.236	1.3	1.3	1.3	1.3	1.3	-
1.2	125	0.728	0.67	0.236	1.6	1.6	1.6	1.6	1.6	-
1.5	155	0.728	0.67	0.236	2	2	2	2	2	-
1.8	185	0.728	0.67	0.236	1.6	1.6	1.6	1.6	--	-
2.2	225	0.728	0.67	0.236	2	2	2	2	-	-
3.3	335	0.728	0.67	0.236	2.1	2.1	2.1	-	-	-
3.9	395	0.728	0.67	0.236	2.5	2.5	2.5	-	-	-
6.8	685	0.728	0.67	0.236	3.4	3.4	-	-	-	-
10	106	0.728	0.67	0.236	2.6	-	-	-	-	-
12	126	0.728	0.67	0.236	3.1	-	-	-	-	-
15	156	0.728	0.67	0.236	3.9	-	-	-	-	-
0.82	824	0.728	0.67	0.315	2.5	2.5	2.5	2.5	2.5	2.5
1.8	185	0.728	0.67	0.315	2.4	2.4	2.4	2.4	2.4	-
2.2	225	0.728	0.67	0.315	3	3	3	3	3	-
2.7	275	0.728	0.67	0.315	2.4	2.4	2.4	2.4	-	-
4.7	475	0.728	0.67	0.315	3	3	3	-	-	-
5.6	565	0.728	0.67	0.315	3.6	3.6	3.6	-	-	-
8.2	825	0.728	0.67	0.315	4	4	-	-	-	-
10	106	0.728	0.67	0.315	4.9	4.9	-	-	-	-
18	186	0.728	0.67	0.315	4.6	-	-	-	-	-
22	226	0.728	0.67	0.315	5.7	-	-	-	-	-
1	104	0.728	0.67	0.394	3	3	3	3	3	3
1.2	125	0.728	0.67	0.394	3.6	3.6	3.6	3.6	3.6	3.6
2.7	275	0.728	0.67	0.394	3.6	3.6	3.6	3.6	3.6	-
3.3	335	0.728	0.67	0.394	3	3	3	3	4.4	-
3.9	395	0.728	0.67	0.394	3.5	3.5	3.5	3.5	-	-
6.8	685	0.728	0.67	0.394	4.3	4.3	4.3	-	-	-
8.2	825	0.728	0.67	0.394	5.2	5.2	5.2	-	-	-
12	126	0.728	0.67	0.394	5.9	5.9	-	-	-	-
27	276	0.728	0.67	0.394	7	-	-	-	-	-
1.5	155	0.728	0.67	0.473	4.5	4.5	4.5	4.5	4.5	4.5
3.9	395	0.728	0.67	0.473	5.3	5.3	5.3	5.3	5.3	-
4.7	475	0.728	0.67	0.473	4.3	4.3	4.3	4.3	-	-
10	106	0.728	0.67	0.473	6.4	6.4	6.4	-	-	-
15	156	0.728	0.67	0.473	7.4	7.4	-	-	-	-
33	336	0.728	0.67	0.473	8.5	-	-	-	-	-
1.8	185	0.728	0.67	0.591	5.4	5.4	5.4	5.4	5.4	5.4
4.7	475	0.728	0.67	0.591	6.3	6.3	6.3	6.3	6.3	-
5.6	565	0.728	0.67	0.591	5.1	5.1	5.1	5.1	-	-
12	126	0.728	0.67	0.591	7.7	7.7	7.7	-	-	-
18	186	0.728	0.67	0.591	8.9	8.9	-	-	-	-
22	226	0.728	0.67	0.591	10	10	-	-	-	-
39	396	0.728	0.67	0.591	10	-	-	-	-	-
47	476	0.728	0.67	0.591	10	-	-	-	-	-
6.8	685	0.728	0.67	0.67	-	-	-	6.2	-	-

RMS current rated at 300kHz up to 105°C.