



Metuchen Capacitors, Inc.
 Toll Free 1-888-535-1535 • 732-888-9700
 1-800-679-9959/Fax
 www.metcaps.com

“We Offer Quick Solutions to Noise Pollution”

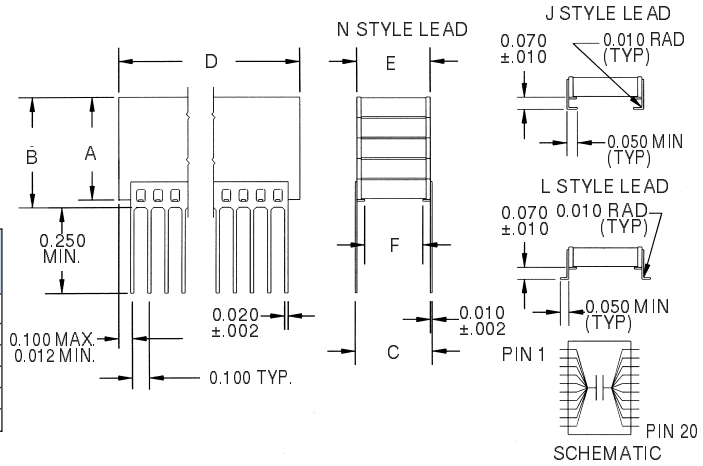
Switchmode Power Supply Capacitors

(SMPS) DSCC Dwg. 87106

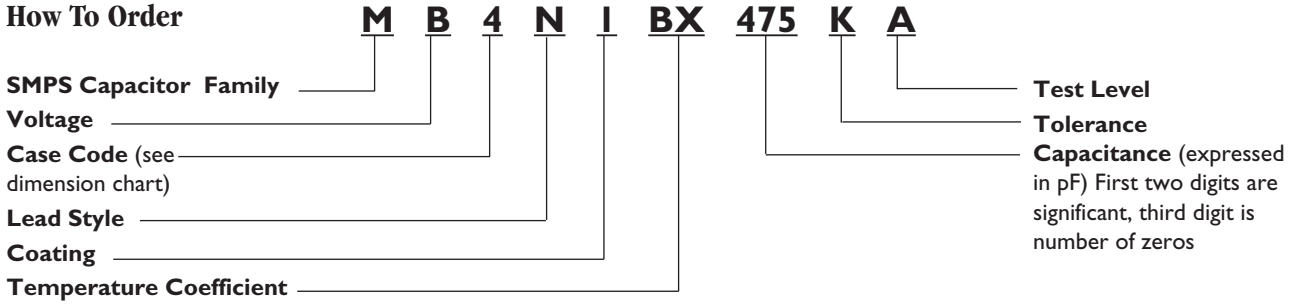
The high frequency output filtering requirements of switch mode power supplies can be achieved by using SMPS Ceramic Capacitors which outperform both tantalum and electrolytic capacitors. The SMPS Ceramic Capacitor's extremely low equivalent series resistance (ESR) and equivalent series inductance (ESL) offer optimum performance at higher frequencies.

Dimension Chart

Case Code	Dim A	Dim B	Dim C ±0.25	Dim D		Dim E Max	Dim F Min	Leads Per Side
	Max	Max		Min	Max			
1	.650	.715	.450	1.950	2.075	.500	.180	20
2	.650	.715	.800	1.450	1.535	.870	.530	15
3	.650	.715	.450	0.950	1.075	.500	.180	10
4	.650	.715	.400	0.350	0.425	.440	.180	4
5	.650	.715	.250	0.224	0.275	.300	.080	3
6	.650	.715	1.250	1.950	2.075	1.350	.980	20



How To Order



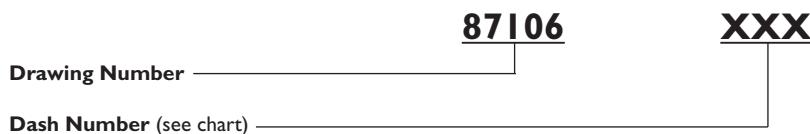
Ordering Terminology

Voltage		Lead Style		Coating		TC		Tolerance		Test Level	
G	50V	N	Straight (thru hole)	1	Uncoated	BX	BX	J	±5%	A	Electrical screening only
B	100V	J	Leads formed in	2	Coated	BR	BR	K	±10%	B	DESC Dwg. 87106 Group A
R	200V	L	Leads formed out			BG	X7R	M	±20%	C	DESC Dwg. 88011 Group A
S	500V	W	Without Leads			BY	NPO				

Maximum Capacitance for each case code (all values are uF)

Case Code	1				2				3				Case Code	4				5				6			
	50V	100V	200V	500V	50V	100V	200V	500V	50V	100V	200V	500V		50V	100V	200V	500V	50V	100V	200V	500V	50V	100V	200V	500V
X7R	100	56.0	27.0	12.0	150	82.0	39.0	18.0	47.0	27.0	12.0	5.6	15.0	8.2	3.9	1.8	5.6	3.3	1.5	0.68	270	180	120	39.0	
NPO	4.7	3.3	1.8	0.82	5.6	4.7	2.7	1.2	2.2	1.8	1.0	0.39	0.56	0.47	0.27	0.12	0.27	0.22	0.1	0.047	15.0	12.0	5.6	2.2	
Dim A Max	0.650				0.650				0.650				0.650				0.650				0.650				
Leads per side	20				15				10				4				3				20				

How To Order for DESC Dwg. 87106



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 2139 Highway 35, Suite 2 • Holmdel, NJ 07733



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(SMPS) DSCC Dwg. 87106 Availability

Cap. (uf)	50V				100V					
	N Lead		J Lead		Size	N Lead		J Lead		Size
	±10%	±20%	±10%	±20%		±10%	±20%	±10%	±20%	
0.15	—	—	—	—	—	—	—	—	—	—
0.18	—	—	—	—	—	—	—	—	—	—
0.22	—	—	—	—	—	—	—	—	—	—
0.27	—	—	—	—	—	—	—	—	—	—
0.33	—	—	—	—	—	—	—	—	—	—
0.39	—	—	—	—	—	—	—	—	—	—
0.47	—	—	—	—	—	—	—	—	—	—
0.56	—	—	—	—	—	—	—	—	—	—
0.68	—	—	—	—	—	055	056	301	302	5
0.82	—	—	—	—	—	057	058	303	304	5
1.0	001	002	241	242	5	059	060	305	306	5
1.2	003	004	243	244	5	061	062	307	308	5
1.5	005	006	245	246	5	063	064	309	310	5
1.8	007	008	247	248	5	065	066	311	312	5
2.2	009	010	249	250	5	067	068	313	314	5
2.7	011	012	251	252	5	069	070	315	316	5
3.3	013	014	253	254	5	071	072	317	318	5
3.9	015	016	255	256	5	073	074	319	320	4
4.7	017	018	257	258	5	075	076	321	322	4
5.6	019	020	259	260	5	077	078	323	324	4
6.8	223	224	261	262	4	079	080	325	326	4
8.2	021	022	263	264	4	081	082	327	328	4
10	023	024	265	266	4	229	230	329	330	3
12	025	026	267	268	4	083	084	331	332	3
15	027	028	269	270	4	085	086	333	334	3
18	029	030	271	272	3	087	088	335	336	3
22	031	032	273	274	3	089	090	337	338	3
27	033	034	275	276	3	091	092	339	340	3
33	035	036	277	278	3	093	094	341	342	1
39	037	038	279	280	3	095	096	342	344	1
47	039	040	281	282	3	097	098	345	346	1
56	225	226	283	284	1	099	100	347	348	1
68	041	042	285	286	1	101	102	349	350	2
82	043	044	287	288	1	103	104	351	352	2
100	045	046	289	290	1	105	106	353	354	6
120	227	228	291	292	2	107	108	355	356	6
150	047	048	293	294	2	109	110	357	358	6
180	049	050	295	296	6	111	112	359	360	6
220	051	052	297	298	6	—	—	—	—	—
270	053	054	299	300	6	—	—	—	—	—

Cap. (uf)	200V				500V					
	N Lead		J Lead		Size	N Lead		J Lead		Size
	±10%	±20%	±10%	±20%		±10%	±20%	±10%	±20%	
0.15	—	—	—	—	—	173	174	421	422	5
0.18	—	—	—	—	—	175	176	423	424	5
0.22	—	—	—	—	—	177	178	425	426	5
0.27	—	—	—	—	—	179	180	427	428	5
0.33	—	—	—	—	—	181	182	429	430	5
0.39	—	—	—	—	—	183	184	431	432	5
0.47	113	114	361	362	5	185	186	433	434	5
0.56	115	116	363	364	5	187	188	435	436	5
0.68	117	118	365	366	5	189	190	437	438	5
0.82	119	120	367	368	5	231	232	439	440	4
1.0	121	122	369	370	5	191	192	441	442	4
1.2	123	124	371	372	5	193	194	443	444	4
1.5	125	126	373	374	5	195	196	445	446	4
1.8	127	128	375	376	4	197	198	447	448	4
2.2	129	130	377	378	4	233	234	449	450	3
2.7	131	132	379	380	4	199	200	451	452	3
3.3	133	134	381	382	4	201	202	453	454	3
3.9	135	136	383	384	4	203	204	455	456	3
4.7	137	138	385	386	3	205	206	457	458	3
5.6	139	140	387	388	3	207	208	459	460	3
6.8	141	142	389	390	3	235	236	461	462	1
8.2	143	144	391	392	3	209	210	463	464	1
10	145	146	393	394	3	211	212	465	466	1
12	147	148	395	396	3	213	214	467	468	1
15	149	150	397	398	1	237	238	469	470	2
18	151	152	399	400	1	215	216	471	472	2
22	153	154	401	402	1	239	240	473	474	6
27	155	156	403	404	1	217	218	475	476	6
33	157	158	405	406	2	219	220	477	478	6
39	159	160	407	408	2	221	222	479	480	6
47	161	162	409	410	6	—	—	—	—	—
56	163	164	411	412	6	—	—	—	—	—
68	165	166	413	414	6	—	—	—	—	—
82	167	168	415	416	6	—	—	—	—	—
100	169	170	417	418	6	—	—	—	—	—
120	171	172	419	420	6	—	—	—	—	—
150	—	—	—	—	—	—	—	—	—	—
180	—	—	—	—	—	—	—	—	—	—
220	—	—	—	—	—	—	—	—	—	—
270	—	—	—	—	—	—	—	—	—	—



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