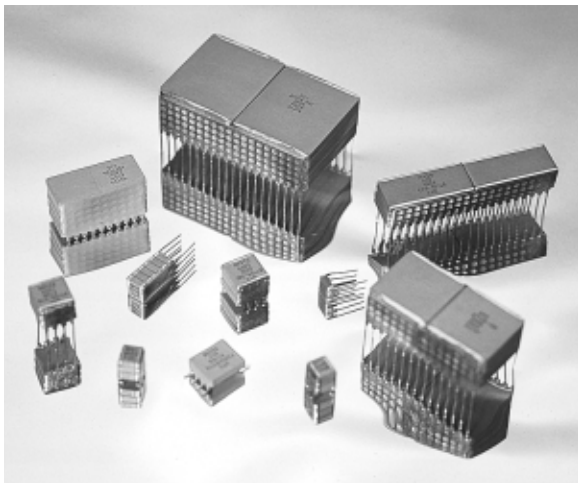




Military and Commercial SMPS - Switch Mode Power Supply Filter Capacitors



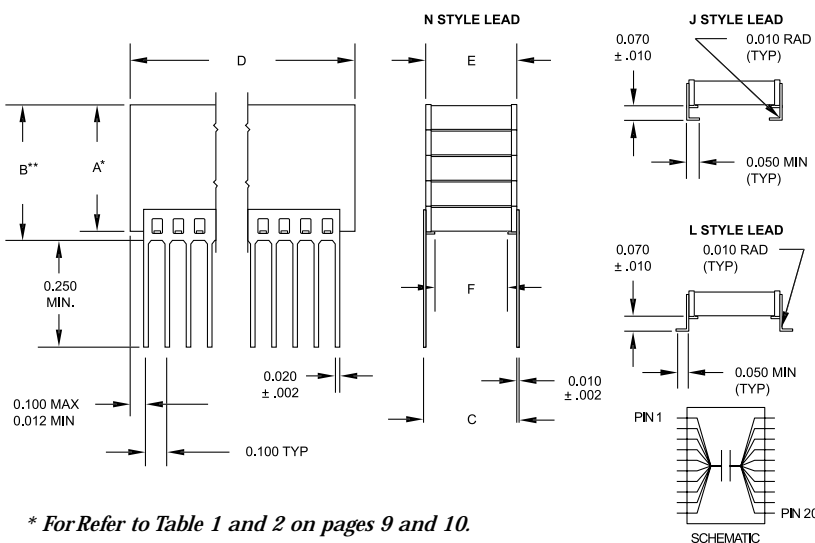
Today's high frequency switch mode power supplies (SMPS) require high performance capacitors in the input and output filters. Union Technology has developed a line of MLCC SMPS filter caps with extremely low equivalent series resistance (ESR) and low equivalent series inductance (ESL) that offer improved performance at higher frequencies. These capacitors have been extensively tested and have performance characteristics meeting the demands for efficient capacitors in these stringent applications.

Union Technology is approved to DSCC Drawings 87106 and 88011. Parts can be screened to the requirements of MIL-PRF-49470 or customer drawings.

Maximum Capacitance for each Case-Values in uF

Case Code	1				2				3			
	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
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

Case Code	4				5				6			
	50V	100V	200V	500V	50V	100V	200V	500V	50V	100V	200V	500V
X7R	15.0	8.2	3.9	1.8	5.6	3.3	1.5	0.68	270	180	120	39.0
NPO	0.56	0.47	0.27	0.12	0.27	0.22	0.1	0.047	15.0	12.0	5.6	2.2



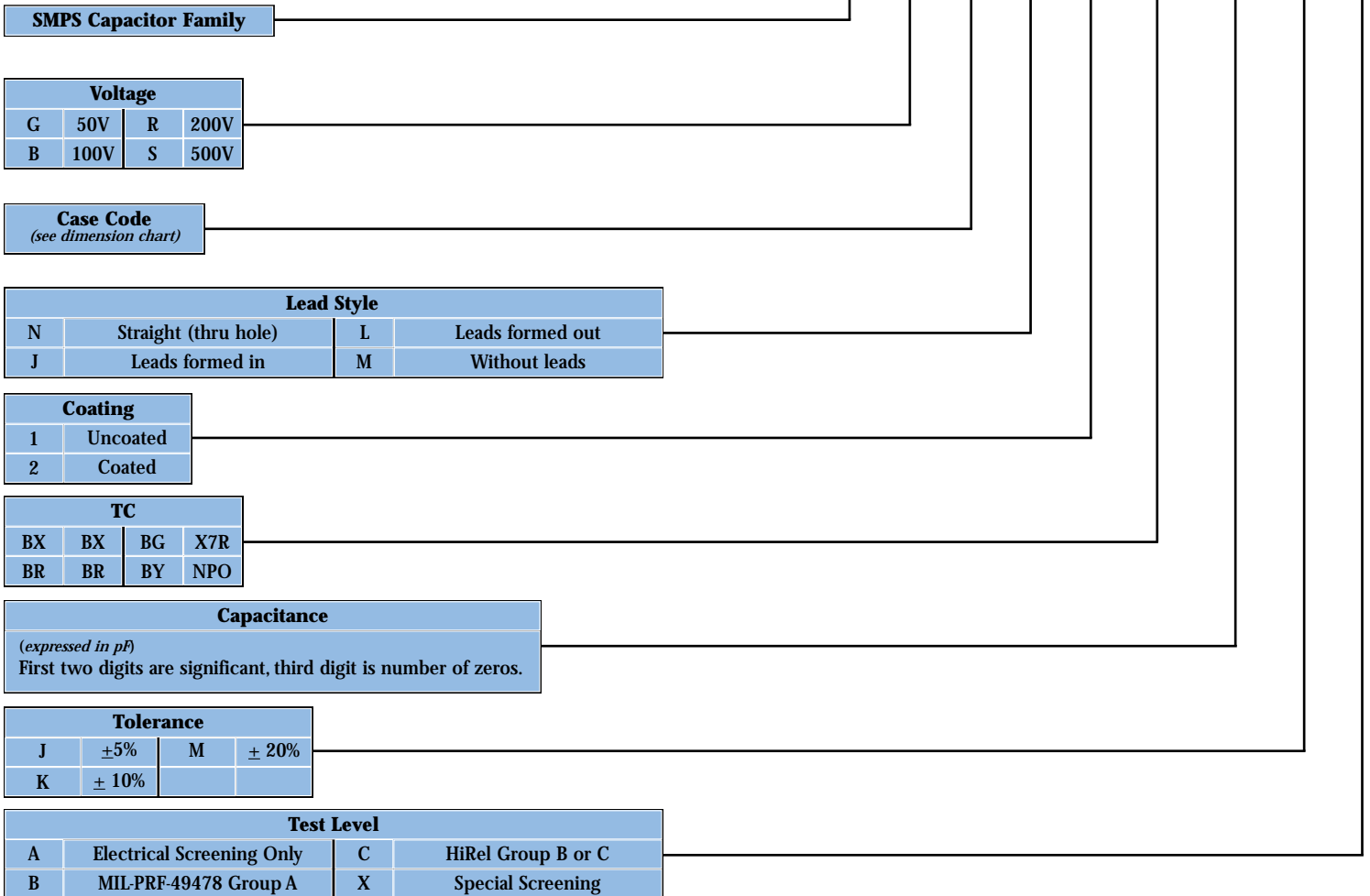
Case Code	C ± .025	D		E (max)	Number of leads per side
		Min	Max		
		1	.450		
2	.800	1.450	1.535	.870	15
3	.450	.950	1.075	.500	10
4	.400	.350	.425	.440	4
5	.250	.224	.275	.300	3
6	1.250	1.950	2.075	1.350	20

* For Refer to Table 1 and 2 on pages 9 and 10.

** For maximum "B" Dimension add .065 inch to the appropriate "A" Dimension.

SMPS Ceramic Capacitors - Ordering Information

P B 4 N 1 BX 475 K B



Ordering Information for DSCC Drawings 87106 & 88011

Part Identification Number 87106 - XXX - X

Drawing Number _____

Dash Number _____

Lead - N Standard - Do not specify - For J or L lead use suffix _____

Vendor CAGE Number
OYBX7

Notes:

- Dimensions are in inches.
- Unless otherwise specified, tolerances are ± .010 inch (0.25 mm).
- Lead frame configuration is shown as typical above the seating plane.
- See Table I for specific maximum A dimension. For maximum B dimension, add .065 inch (1.65 mm) to the appropriate A dimension. For all lead styles, the number of chips is determined by the capacitance and voltage rating.
- For case code 5, dimensions shall be .100 inch (2.54 mm) maximum and .012 inch (0.30 mm) minimum.
- Lead alignment within pin rows shall be within ± .005 inch (0.13 mm).