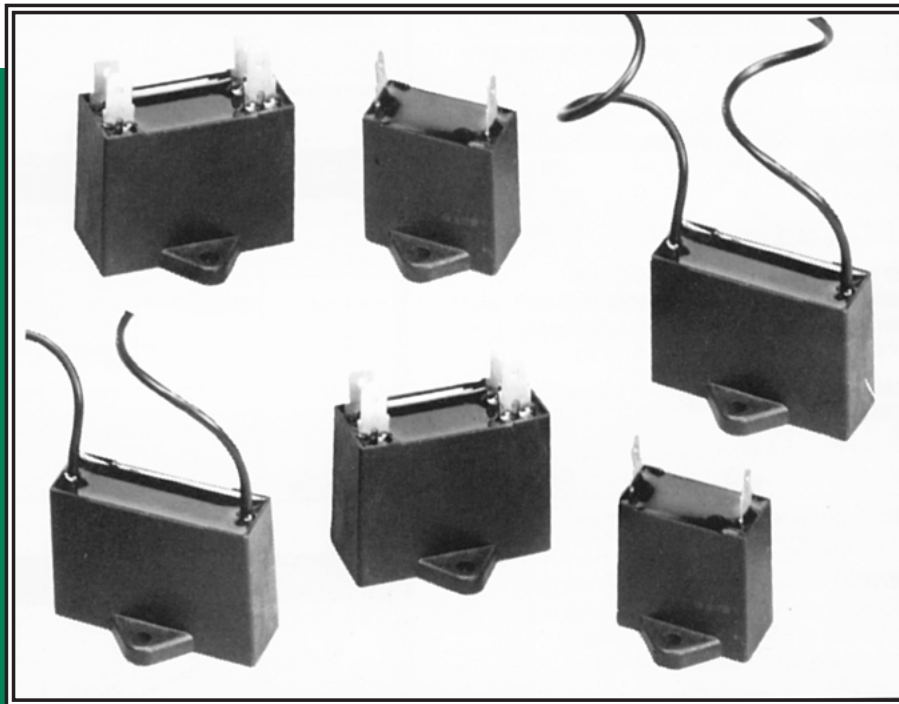


Dearborn electronics, *inc.*

**A.C. Rated
Metalized Polyester
and Metalized
Polypropylene
Capacitors**



Typical Applications:
Motors • Fans • Refrigerators • Appliances • Pumps
Business Machines • Electric Tools

A.C. RATED METALIZED POLYESTER CAPACITORS

File #E145953(N)

Applications

- Motors & Fans
- Pumps, Business Machines
- Refrigerators & Appliances
- Electric Tools

General Description

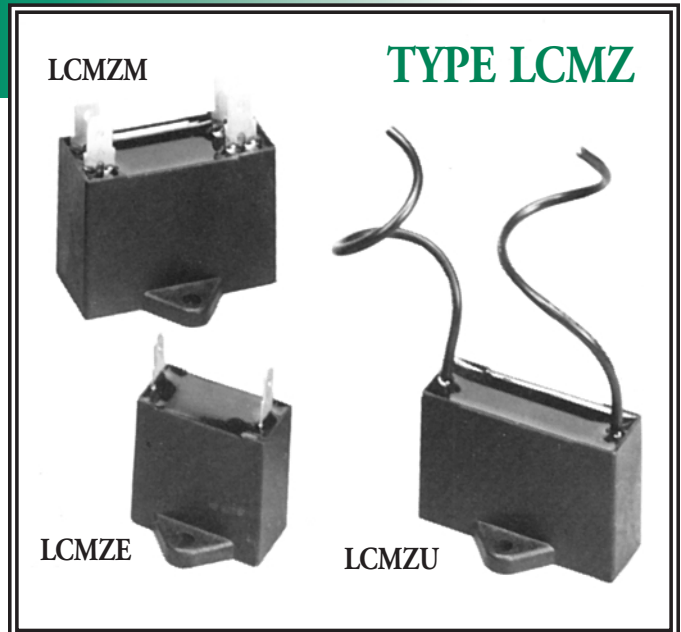
DIELECTRIC: Metalized polyester. Self healing in the event of momentary overvoltage.

WINDING: Non-inductive using a zinc alloy spray to contact the edges of the metalized film.

ENCLOSURE: Molded rectangular case of black polyester glass and epoxy potting, flame retardant per UL94 V0.

MARKING: Each unit is stamped with the capacitance value, voltage rating and catalog number with a code letter for capacitance tolerance.

TERMINALS: For standard configurations see center page. Capacitors with wire terminals (Style U) utilize UL 1015 listed insulated wire.



Electrical Characteristics

CAPACITANCE: Values from .50 MFD to 34.0 MFD are available in 5%, 10%, and 20% tolerances and shall be within specified tolerances when measured at 1000 Hz (25°C). (Standard capacitance tolerance is $\pm 10\%$).

VOLTAGE: The available voltages for this type of capacitor are 220, 250, 370, 440, and 500 VAC.

TEMPERATURE: Units will operate continuously over a temperature range of -25°C to +70°C without derating.

DISSIPATION FACTOR: Shall be less than .35% when measured at 60 HZ and 25°C.

INSULATION RESISTANCE: Measurements after 2 minute electrification at 135 VDC shall have minimum values of: 10,000 Megohms x MFDS at 25°C across terminals. 20,000 Megohms Minimum from terminal to case

Test Specifications

DIELECTRIC STRENGTH: Capacitors shall withstand 175% of the rated voltage for a period of 60 seconds.

CASE TEST: Terminal to case shall withstand 2 x rated voltage plus 1500 VAC for 60 seconds.

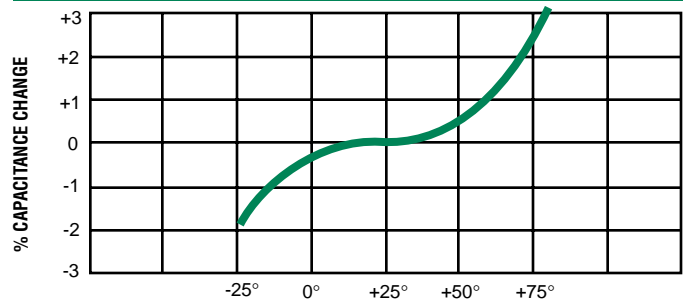
HUMIDITY RESISTANCE: Units shall exceed the requirements of MIL-STD-202, Method 106.

LIFE TEST: After 1000 hours at 60°C with 120% of rated voltage applied between terminals:

- Capacitance shall be within 7% of initial value.
- D.F. shall not exceed .45% at 60Hz and 25°C.
- Insulation resistance shall not be less than 100 Megohms x Microfarads.

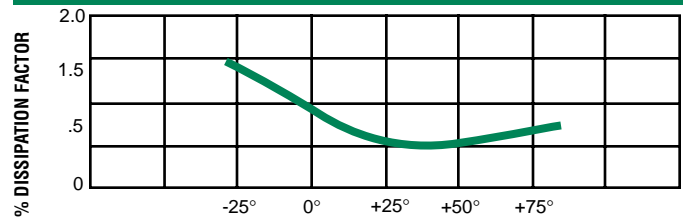
Typical

CAPACITANCE CHANGE vs. TEMPERATURE



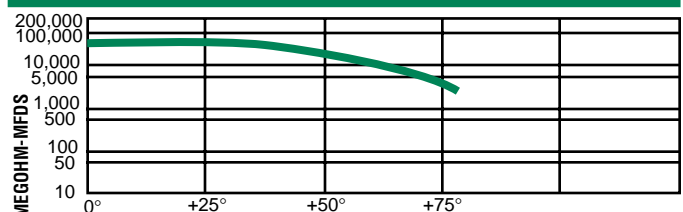
Typical

DISSIPATION FACTOR vs. TEMPERATURE

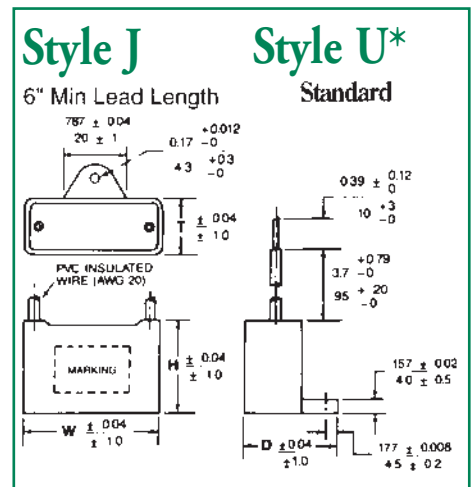
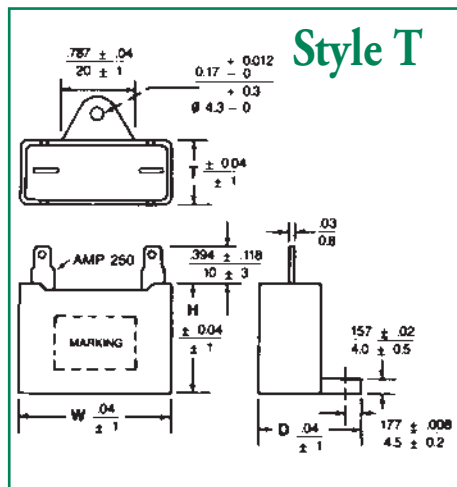
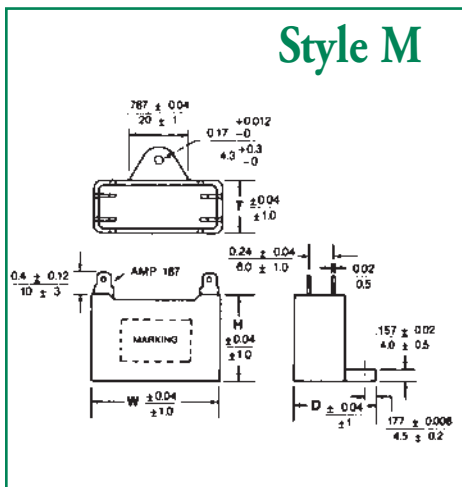
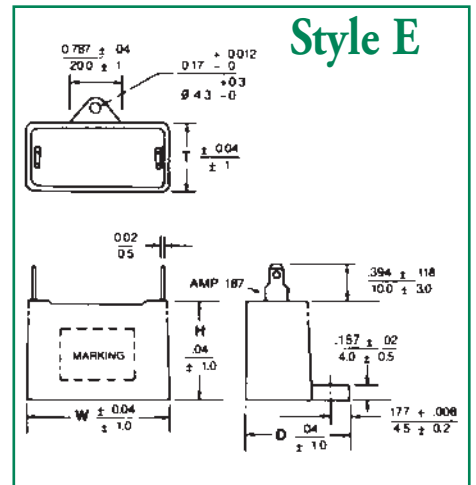
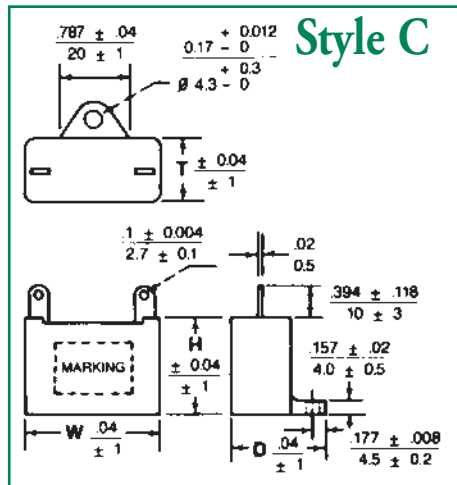
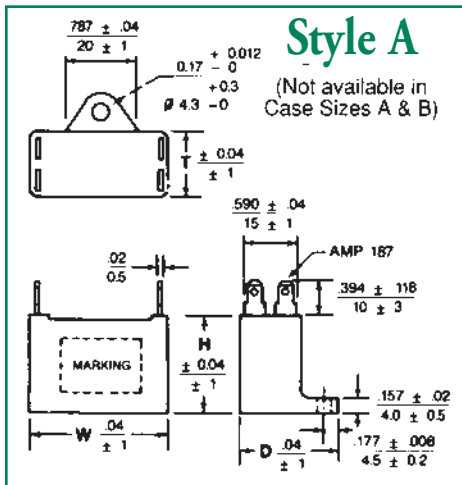


Typical

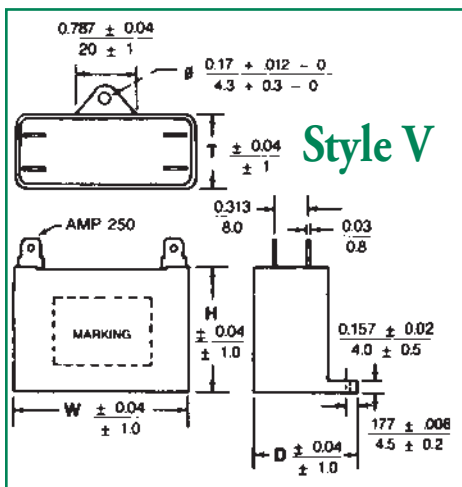
INSULATION RESISTANCE vs. TEMPERATURE



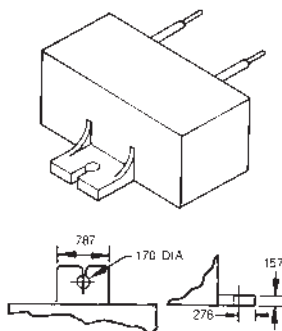
DIMENSIONS



*Style W same as style U except 20AWG bare solid copper wire 1" min.



90 DEGREE MOUNTING FOOT



Mounting Foot for Case Sizes K & L

CASE DIMENSIONS

Case Code	Inches ±.040"				Millimeters ±1 mm			
	W	H	T	D	W	H	T	D
"A"	1.22	.93	.57	.97	31.0	23.5	14.5	24.5
"B"	1.22	1.06	.67	1.06	31.0	27.0	17.0	27.0
"C"	1.46	1.06	.71	1.10	37.0	27.0	18.0	28.0
"D"	1.50	1.14	.75	1.14	38.0	29.0	19.0	29.0
"E"	1.50	1.22	.83	1.22	38.0	31.0	21.0	31.0
"F"	1.89	1.14	.75	1.14	48.0	29.0	19.0	29.0
"G"	1.89	1.22	.83	1.22	48.0	31.0	21.0	31.0
"H"	1.89	1.24	.89	1.28	48.0	31.5	22.5	32.5
"J"	2.28	1.38	.87	1.26	58.0	35.0	22.0	32.0
"K"	2.28	1.61	1.14	1.73	58.0	41.0	29.0	44.0
"L"	2.28	1.46	.92	1.52	58.0	37.0	23.5	38.5

Contact Dearborn Electronics, Inc. for all of your Industrial/Midwest requirements

Phone: (407) 695- 6562 • Fax: (407) 695- 6889

E-Mail: dearborn92@worldnet.att.net • Web Site: www.dearbornelectronics.com

A.C. RATED METALIZED POLYPROPYLENE CAPACITORS

File #E145953(N)

Applications

- Motors & Fans
- Pumps, Business Machines
- Refrigerators & Appliances
- Electric Tools

General Description

DIELECTRIC: Metalized polypropylene film impregnated with low loss micro-crystalline wax. Self healing in the event of momentary overvoltage.

WINDING: Non-inductive using a zinc alloy spray to contact the edges of the metalized film.

ENCLOSURE: Molded rectangular case of black polyester glass and epoxy potting, flame retardant per UL94 V0.

MARKING: Each unit is stamped with the capacitance value, voltage rating and catalog number with a code letter for capacitance tolerance.

TERMINALS: For standard configurations see reverse side. Capacitors with wire terminals (Style U) utilize UL 1015 listed insulated wire.

Electrical Characteristics

CAPACITANCE: Values from .50 MFD to 16.0 MFD are available in 5%, 10% and 20% tolerances and shall be within specified tolerances when measured at 1000 Hz (25°C). (Standard capacitance tolerance is $\pm 10\%$).

VOLTAGE: The available voltages for this type of capacitor are 250, 330, 370, 440 VAC.

TEMPERATURE: Units will operate continuously over a temperature range of -25°C to +85°C without derating.

DISSIPATION FACTOR: Shall be less than .10% when measured at 60 HZ and 25°C.

INSULATION RESISTANCE: Measurements after 2 minute electrification at 135 VDC shall have minimum values of: 10,000 Megohms x MFDS at 25°C across terminals. 20,000 Megohms minimum from terminal to case.

Test Specifications

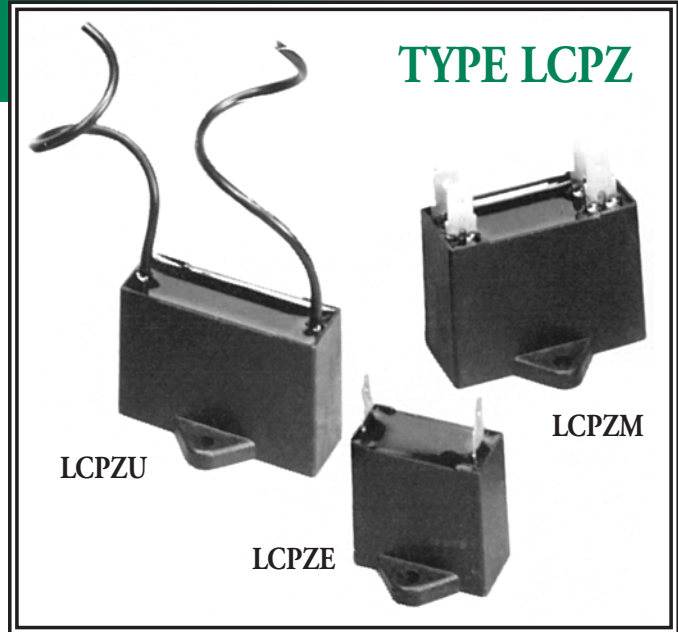
DIELECTRIC STRENGTH: Capacitors shall withstand 175% of the rated voltage for a period of 60 seconds.

CASE TEST: Terminal to case shall withstand 2 x rated voltage plus 1500 VAC for 60 seconds.

HUMIDITY RESISTANCE: Units shall exceed the requirements of MIL-STD-202, Method 106.

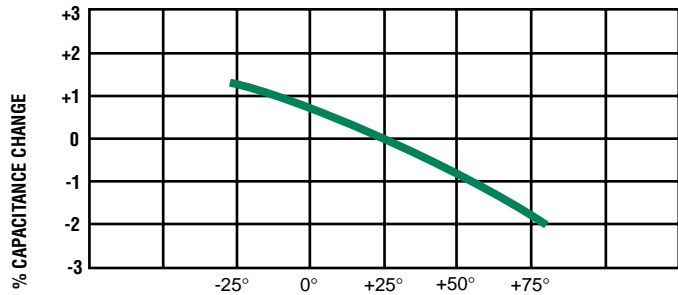
LIFE TEST: After 1000 hours at 85°C with 120% of rated voltage applied between terminals:

- Capacitance shall be within 4% of initial value.
- D.F. shall not exceed .10% at 60Hz and 25°C.
- Insulation resistance shall not be less than 1000 Megohms x Microfarads.



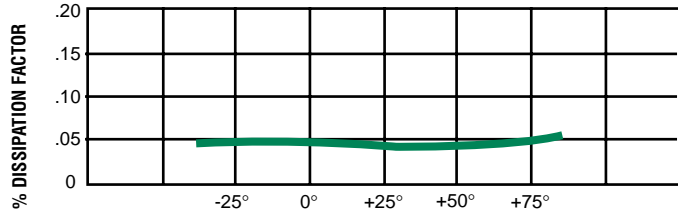
Typical

CAPACITANCE CHANGE vs. TEMPERATURE



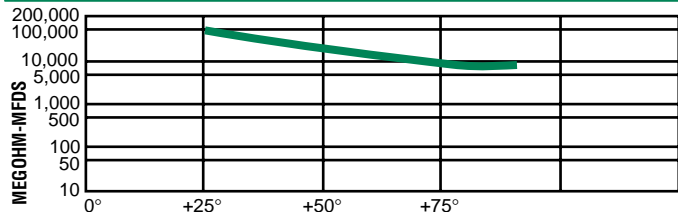
Typical

DISSIPATION FACTOR vs. TEMPERATURE



Typical

INSULATION RESISTANCE vs. TEMPERATURE



ORDER INFORMATION

TYPE LCMZ

CAP MFD	220 VAC		250 VAC		370 VAC		440 VAC		500 VAC	
	Case	CATALOG #	CASE	CATALOG #	CASE	CATALOG #	CASE	CATALOG #	CASE	CATALOG #
0.5	A	22LCMZ* 504	A	25LCMZ* 504	A	37LCMZ* 504	A	44LCMZ* 504	A	50LCMZ* 504
0.6	A	22LCMZ 604	A	25LCMZ 604	A	37LCMZ 604	A	44LCMZ 604	A	50LCMZ 604
0.8	A	22LCMZ 804	A	25LCMZ 804	B	37LCMZ 804	A	44LCMZ 804	A	50LCMZ 804
1.0	A	22LCMZ 105	A	25LCMZ 105	C	37LCMZ 105	B	44LCMZ 105	C	50LCMZ 105
1.5	A	22LCMZ 155	A	25LCMZ 155	F	37LCMZ 155	C	44LCMZ 155	D	50LCMZ 155
2.0	A	22LCMZ 205	A	25LCMZ 205	F	37LCMZ 205	F	44LCMZ 205	F	50LCMZ 205
2.2	A	22LCMZ 225	A	25LCMZ 225	F	37LCMZ 225	F	44LCMZ 225	G	50LCMZ 225
2.5	A	22LCMZ 255	A	25LCMZ 255	F	37LCMZ 255	F	44LCMZ 255	G	50LCMZ 255
3.0	A	22LCMZ 305	A	25LCMZ 305	G	37LCMZ 305	G	44LCMZ 305	H	50LCMZ 305
3.5	A	22LCMZ 355	B	25LCMZ 355	G	37LCMZ 355	G	44LCMZ 355	J	50LCMZ 355
4.0	A	22LCMZ 405	B	25LCMZ 405	H	37LCMZ 405	H	44LCMZ 405	L	50LCMZ 405
4.5	B	22LCMZ 455	B	25LCMZ 455	J	37LCMZ 455	J	44LCMZ 455	L	50LCMZ 455
5.0	B	22LCMZ 505	C	25LCMZ 505	J	37LCMZ 505	J	44LCMZ 505	L	50LCMZ 505
5.5	C	22LCMZ 555	C	25LCMZ 555	L	37LCMZ 555	L	44LCMZ 555	K	50LCMZ 555
6.0	C	22LCMZ 605	C	25LCMZ 605	L	37LCMZ 605	L	44LCMZ 605	K	50LCMZ 605
7.0	C	22LCMZ 705	D	25LCMZ 705	K	37LCMZ 705	K	44LCMZ 705		
8.0	D	22LCMZ 805	F	25LCMZ 805	K	37LCMZ 805	K	44LCMZ 805		
9.0	D	22LCMZ 905	F	25LCMZ 905						
10.0	F	22LCMZ 106	F	25LCMZ 106						
12.0	F	22LCMZ 126	G	25LCMZ 126						
14.0	G	22LCMZ 146	H	25LCMZ 146						
15.0	G	22LCMZ 156	J	25LCMZ 156						
18.0	H	22LCMZ 186	L	25LCMZ 186						
19.0	J	22LCMZ 196	L	25LCMZ 196						
20.0	J	22LCMZ 206	L	25LCMZ 206						
21.0	L	22LCMZ 216	L	25LCMZ 216						
22.0	L	22LCMZ 226	K	25LCMZ 226						
23.0	L	22LCMZ 236	K	25LCMZ 236						
24.0	L	22LCMZ 246	K	25LCMZ 246						
25.0	L	22LCMZ 256	K	25LCMZ 256						
26.0	L	22LCMZ 266	K	25LCMZ 266						
27.0	K	22LCMZ 276	K	25LCMZ 276						
28.0	K	22LCMZ 286	K	25LCMZ 286						
29.0	K	22LCMZ 296	K	25LCMZ 296						
30.0	K	22LCMZ 306								
31.0	K	22LCMZ 316								
33.0	K	22LCMZ 336								
34.0	K	22LCMZ 346								

Additional capacitance values and voltages are available upon request

TYPICAL PART NUMBER:

<u>25</u>	<u>LCMZ</u>	<u>M</u>	<u>225</u>	<u>K</u>	<u>N</u>
Voltage	Series	Terminal	Capacitance	Tolerance	Case Option

TOLERANCE:
 J = ±5%
 K = ±10%
 M = ±20%

CASE OPTION:
 N = NO FOOT
 90 = 90 DEGREE FOOT
 NONE = STANDARD FOOT

***LCPZ:** insert letter for style (E, M, A, V, T, C, or W, U, J) W=20AWG bare solid copper wire, 1" min. Add tolerance letter (J, K, M) and case option (if any) to complete catalog number.

TYPE LCPZ

CAP MFD	250 VAC		330 VAC		370 VAC		440 VAC	
	Case	CATALOG #	CASE	CATALOG #	CASE	CATALOG #	CASE	CATALOG #
0.5	A	25LCPZ* 504	A	33LCPZ* 504	A	37LCPZ* 504	A	44LCPZ* 504
0.6	A	25LCPZ 604	A	33LCPZ 604	A	37LCPZ 604	B	44LCPZ 604
0.8	A	25LCPZ 804	A	33LCPZ 804	A	37LCPZ 804	B	44LCPZ 804
1.0	A	25LCPZ 105	B	33LCPZ 105	B	37LCPZ 105	C	44LCPZ 105
1.5	A	25LCPZ 155	C	33LCPZ 155	B	37LCPZ 155	E	44LCPZ 155
2.0	B	25LCPZ 205	D	33LCPZ 205	C	37LCPZ 205	F	44LCPZ 205
2.2	C	25LCPZ 225	D	33LCPZ 225	D	37LCPZ 225	F	44LCPZ 225
2.5	C	25LCPZ 255	E	33LCPZ 255	E	37LCPZ 255	G	44LCPZ 255
3.0	D	25LCPZ 305	F	33LCPZ 305	F	37LCPZ 305	J	44LCPZ 305
3.5	E	25LCPZ 355	G	33LCPZ 355	G	37LCPZ 355	J	44LCPZ 355
4.0	F	25LCPZ 405	H	33LCPZ 405	H	37LCPZ 405	J	44LCPZ 405
4.5	F	25LCPZ 455	J	33LCPZ 455	J	37LCPZ 455	L	44LCPZ 455
5.0	G	25LCPZ 505	J	33LCPZ 505	J	37LCPZ 505	L	44LCPZ 505
5.5	H	25LCPZ 555	J	33LCPZ 555	J	37LCPZ 555	L	44LCPZ 555
6.0	H	25LCPZ 605	J	33LCPZ 605	L	37LCPZ 605	K	44LCPZ 605
7.0	J	25LCPZ 705	L	33LCPZ 705	L	37LCPZ 705	K	44LCPZ 705
8.0	J	25LCPZ 805	L	33LCPZ 805	K	37LCPZ 805	K	44LCPZ 805
9.0	J	25LCPZ 905	K	33LCPZ 905	K	37LCPZ 905		
10.0	J	25LCPZ 106	K	33LCPZ 106				
12.0	L	25LCPZ 126						
14.0	K	25LCPZ 146						
15.0	K	25LCPZ 156						
16.0	K	25LCPZ 166						

Additional capacitance values and voltages are available upon request

TYPICAL PART NUMBER:

<u>25</u>	<u>LCPZ</u>	<u>M</u>	<u>225</u>	<u>K</u>	<u>N</u>
Voltage	Series	Terminal	Capacitance	Tolerance	Case Option

TOLERANCE:
 J = ±5%
 K = ±10%
 M = ±20%

CASE OPTION:
 N = NO FOOT
 90 = 90 DEGREE FOOT
 NONE = STANDARD FOOT

***LCPZ:** insert letter for style (E, M, A, V, T, C, or W, U, J) W=20AWG bare solid copper wire, 1" min. Add tolerance letter (J, K, M) and case option (if any) to complete catalog number.

Contact
Dearborn Electronics for all of your
Industrial/Midwec Requirements



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Phone: (407) 695-6562 • Fax: (407) 695-6889

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