

Aluminum Capacitors

+ 105 °C, General Purpose Miniature, Radial Lead



Fig.1 Component outline

FEATURES

- High CV per case size
- Low cost
- Solvent resistant construction
(through 100 WVDC)
- High temperature operation
- Life test to 2000 hours at + 105 °C


RoHS
COMPLIANT

QUICK REFERENCE DATA	
DESCRIPTION	VALUE
Nominal case size Ø D x L in mm	0.197" x 0.433" [5.0 x 11.0] to 0.709" x 1.575" [18.0 x 40.0]
Operating temperature	- 55 °C to + 105 °C (6.3 WVDC to 100 WVDC) - 40 °C to + 105 °C (160 WVDC to 250 WVDC)
Rated Capacitance range, C _R	0.47 µF to 15 000 µF
Tolerance on C _R	± 20 %
Rated voltage range, U _R	6.3 WVDC to 250 WVDC
Termination	2 radial leads
Life validation test at 105 °C	2000 hours: Δ CAP ± 20 % from initial measurement. Δ DF 2 x initial specified limit. Δ DCL ≤ initial specified limit.
Shelf life at 105 °C	1000 hours: Δ CAP ± 20 % from initial measurement. Δ DF 2 x initial specified limit. Δ DCL ≤ initial specified limit
DC leakage current	Rated voltage for 1 minute for 6.3 WVDC to 100 WVDC units: I < 0.03 CV or 4 µA (whichever is greater). Rated voltage for 2 minutes for 6.3 WVDC to 100 WVDC units: I < 0.04 CV or 3 µA (whichever is greater). rated voltage for 1 minute for 160 WVDC to 250 WVDC units: I < 0.1 CV + 40 µA and CV > 1000; I < 0.04 CV + 100 µA and CV > 1000

RIPPLE CURRENT MULTIPLIERS						
TEMPERATURE						
Ambient Temperature			Multipliers			
+ 70 °C			1.78			
+ 85 °C			1.4			
+ 105 °C			1.0			
FREQUENCY (Hz)						
WVDC	Cap. (µF)	50 - 60	100 - 120	300 - 400	1 kHz	≤ 10 kHz
6.3 - 100	0 - 47	0.75	1	1.35	1.57	2.00
	100 - 470	0.80	1	1.23	1.34	1.50
	1000 - 22 000	0.85	1	1.10	1.13	1.15
160 - 250	0.47 - 100	0.80	1	1.25	1.40	1.60

LOW TEMPERATURE PERFORMANCE		
MAXIMUM IMPEDANCE RATIO Z ^(T) /Z ^(+20 °C)		
MAXIMUM AT 120 Hz		
Rated Voltage (WVDC)	Z - 25 °C/Z + 20 °C	Z - 40 °C/Z + 20 °C
6.3	4.0	8.0
10.0	3.0	6.0
16.0	2.0	4.0
25.0 - 100.0	2.0	3.0
160.0 - 200.0	2.0	4.0
250.0	4.0	6.0

DIMENSIONS in inches [millimeters]				
CASE CODE	NOMINAL CASE SIZE D X L	LEAD SPACING S	NOMINAL LEAD DIAMETER D	TYPICAL WEIGHT (GRAMS)
JA	0.197 x .433 [5.0 x 11.0]	0.079 [2.0]	0.020 [0.50]	0.44
AA	0.248 x .433 [6.3 x 11.0]	0.098 [2.5]	0.020 [0.50]	0.63
BB	0.315 x .453 [8.0 x 11.5]	0.138 [3.5]	0.024 [0.60]	1.03
CC	0.394 x .492 [10.0 x 12.5]	0.197 [5.0]	0.024 [0.60]	1.53
CD	0.394 x .630 [10.0 x 16.0]	0.197 [5.0]	0.024 [0.60]	1.86
CG	0.394 x .787 [10.0 x 20.0]	0.197 [5.0]	0.024 [0.60]	2.48
DG	0.492 x 0.787 [12.5 x 20.0]	0.197 [5.0]	0.024 [0.60]	3.98

DIMENSIONS in inches [millimeters]				
CASE CODE	NOMINAL CASE SIZE D X L	LEAD SPACING S	NOMINAL LEAD DIAMETER D	TYPICAL WEIGHT (GRAMS)
DK	0.492 x 0.984 [12.5 x 25.0]	0.197 [5.0]	0.024 [0.60]	5.27
EK	0.630 x 0.984 [16.0 x 25.0]	0.295 [7.5]	0.031 [0.80]	7.72
EN	0.630 x 1.24 [16.0 x 31.5]	0.295 [7.5]	0.031 [0.80]	9.90
ER	0.630 x 1.40 [16.0 x 35.5]	0.295 [7.5]	0.031 [0.80]	11.10
FR	0.709 x 1.40 [18.0 x 35.5]	0.295 [7.5]	0.031 [0.80]	13.04
FV	0.709 x 1.575 [18.0 x 40.0]	0.295 [7.5]	0.031 [0.80]	15.74

ELECTROLYTIC CAPACITOR WITH CUT OR FORMED LEADS in inches [millimeters]



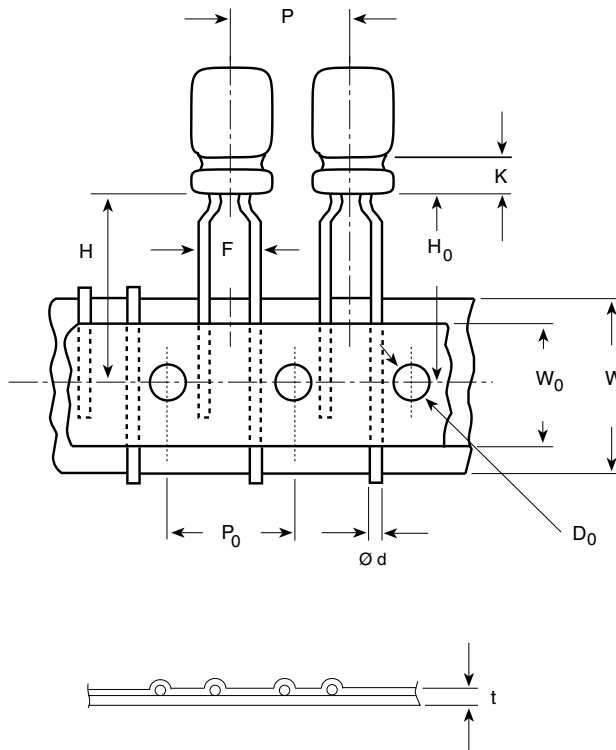
DIMENSIONS in inches [millimeters]						
FORMING METHOD	FORMED LEAD CODE	DIMENSIONS				
		D	L.S.	P	e***	X (Max.)
Formed and Cut	F	0.197 [5.0]	0.197 [5.0]	0.079 [2.0]	-	0.059 [1.5]
		0.248 [6.3]	0.197 [5.0]	0.098 [2.5]	-	0.098 [2.5]
		0.315 [8.0]	0.197 [5.0]	0.138 [3.5]	-	0.098 [2.5]
Cut	C	0.394 [10.0]	0.197 [5.0]	-	-	-
		0.492 [12.5]	0.197 [5.0]	-	-	-
		0.630 [16.0]	0.295 [7.5]	-	-	-
		0.709 [18.0]	0.295 [7.5]	-	-	-
Snap-in	S	0.197 [5.0]	0.197 [5.0]	0.079 [2.0]	0.043 [1.1]	0.059 [1.5]
		0.248 [6.3]	0.197 [5.0]	0.098 [2.5]	0.043 [1.1]	0.059 [1.5]
		0.315 [8.0]	0.197 [5.0]	0.138 [3.5]	0.051 [1.3]	0.059 [1.5]
		0.394 [10.0]	0.197 [5.0]	-	0.051 [1.3]	-
		0.492 [12.5]	0.197 [5.0]	-	0.051 [1.3]	-
		0.630 [16.0]	0.295 [7.5]	-	0.051 [1.3]	-
0.709 [18.0]	0.295 [7.5]	-	0.051 [1.3]	-		

Note: The cut or formed code is to be added to the end of type number in 15th position (with position 14 coded "6").
* Formed lead. ** Lead thickness Ø d depends on capacitor specification. *** Lead protrusion at bottom of tape.

TAPED CAPACITORS FOR AUTOMATIC INSERTION SYSTEMS in inches [millimeters]					
PACKAGING	LEAD CODE	SPECIFICATION		LEAD SPACE	CAPACITOR SIZES AVAILABLE
		LEAD STYLE	+ LEADER		
Ammo Pack	P	Formed Lead**	-	0.197 [5.0]	0.197 x 0.433 [5.0 x 11.0] - 0.492 x 0.787 [4.0 x 7.0 - 12.5 x 20.0]

Note: The ammo pack code is to be added to the end of type number in the 15th position (with position 14 coded as "8" as appropriate.)
** Except 0.394 [10.0 mm] and 0.492 [12.5 mm] diameter have straight unformed leads.

TAPING SPECIFICATIONS in inches [millimeters]

Formed Lead Type


DIMENSIONS in inches [millimeters]					
ITEM	CASE SIZE (Diameter x Length)				
	FORMED LEAD TYPE			STRAIGHT LEAD TYPE	
	0.197 x 0.433 [5.0 x 11.0]	0.248 x 0.433 [6.3 x 11.0]	0.315 x 0.452 [8.0 x 11.5]	0.394 [10.0] (Dia.)	0.492 [12.5] (Dia.)
Ø d - Lead-wire Diameter	0.020 [0.5]	0.020 [0.5]	0.024 [0.6]	0.024 [0.6]	0.024 [0.6]
P - Pitch of Component	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]	0.591 [15.0]
P ₀ - Feed Hole Pitch	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]	0.500 [12.7]	0.591 [15.0]
F - Lead-to-lead Distance	0.197 [5.0]	0.197 [5.0]	0.197 [5.0]	0.197 [5.0]	0.197 [5.0]
K - Clinch Height	0.098 [2.5]	0.098 [2.5]	0.157 [4.0]	—	—
H - Height of Component from Tape Center	0.728 [18.5]	0.728 [18.5]	0.787 [20.0]	0.728 [18.5]	0.630 [16.0]
H ₀ - Lead-wire Clinch Height	0.630 [16.0]	0.630 [16.0]	0.630 [16.0]	—	—
W - Tape Width	0.709 [18.0]	0.709 [18.0]	0.709 [18.0]	0.709 [18.0]	0.709 [18.0]
W ₀ - Hold Down Tape Width	0.512 [13.0]	0.512 [13.0]	0.512 [13.0]	0.512 [13.0]	0.512 [13.0]
D ₀ - Feed Hole Diameter	0.157 [4.0]	0.157 [4.0]	0.157 [4.0]	0.157 [4.0]	0.157 [4.0]
t - Total Tape Thickness	0.028 [0.7]	0.028 [0.7]	0.028 [0.7]	0.028 [0.7]	0.028 [0.7]



ELECTRICAL DATA	
SYMBOL	DESCRIPTION
μF	rated capacitance
± %	M = ± 20 %
DC	voltage rating at 105 °C
JA	see dimensions in millimeters table
6	packaging code
A	termination

ORDERING EXAMPLE*

Electrolytic capacitor 517D series

517D 107M 6R3 JA 6A E3

6A = Bulk, Uncut leads.

6C = Cut leads (not stocked).

6F = Formed and cut leads (not stocked).

6S = Snap-in leads (not stocked).

For Cases Codes JA, AA, BB, CC, CD, CG, and DG only:
8P = Ammo-Pack.

All items stating "not stocked" are items that are not generally stocked unless a Purchase Order is placed. Lead time is 16 weeks for these items unless there is excess inventory.

* Suffix E3 denotes lead (Pb)-free/RoHS compliant products.

ELECTRICAL DATA AND ORDERING INFORMATION				
CAPACITANCE (μF)	PART NUMBER	NOMINAL CASE SIZE D x L	Max. RIPPLE at + 105 °C 120 Hz (mA)	Max. DF at + 20 °C 120 Hz
6.3 WVDC at + 105 °C, SURGE = 8 V				
22.0	517D226M6R3JA6AE3	0.197 x 0.433 [5.0 x 11.0]	34.0	0.26
33.0	517D336M6R3JA6AE3	0.197 x 0.433 [5.0 x 11.0]	50.0	0.26
47.0	517D476M6R3JA6AE3	0.197 x 0.433 [5.0 x 11.0]	65.0	0.26
100.0	517D107M6R3JA6AE3	0.197 x 0.433 [5.0 x 11.0]	100.0	0.26
220.0	517D227M6R3AA6AE3	0.248 x 0.433 [6.3 x 11.0]	165.0	0.26
330.0	517D337M6R3AA6AE3	0.248 x 0.433 [6.3 x 11.0]	200.0	0.26
470.0	517D477M6R3BB6AE3	0.315 x 0.453 [8.0 x 11.5]	280.0	0.26
1000.0	517D108M6R3CC6AE3	0.394 x 0.492 [10.0 x 12.5]	470.0	0.26
2200.0	517D228M6R3DG6AE3	0.492 x 0.787 [12.5 x 20.0]	930.0	0.26
3300.0	517D338M6R3DG6AE3	0.492 x 0.787 [12.5 x 20.0]	1100.0	0.26
4700.0	517D478M6R3EK6AE3	0.630 x 0.984 [16.0 x 25.0]	1320.0	0.26
6800.0	517D688M6R3EK6AE3	0.630 x 0.984 [16.0 x 25.0]	1490.0	0.26
10 000.0	517D109M6R3EN6AE3	0.630 x 1.240 [16.0 x 31.5]	1830.0	0.26
15 000.0	517D159M6R3FR6AE3	0.709 x 1.398 [18.0 x 35.5]	2280.0	0.26
10 WVDC at + 105 °C, SURGE = 13 V				
22.0	517D226M010JA6AE3	0.197 x 0.433 [5.0 x 11.0]	45.0	0.22
33.0	517D336M010JA6AE3	0.197 x 0.433 [5.0 x 11.0]	60.0	0.22
47.0	517D476M010JA6AE3	0.197 x 0.433 [5.0 x 11.0]	75.0	0.22
100.0	517D107M010JA6AE3	0.197 x 0.433 [5.0 x 11.0]	110.0	0.22
220.0	517D227M010AA6AE3	0.248 x 0.433 [6.3 x 11.0]	180.0	0.22
330.0	517D337M010BB6AE3	0.315 x 0.453 [8.0 x 11.5]	255.0	0.22
470.0	517D477M010BB6AE3	0.315 x 0.453 [8.0 x 11.5]	305.0	0.22
1000.0	517D108M010CD6AE3	0.394 x 0.630 [10.0 x 16.0]	570.0	0.22
2200.0	517D228M010DG6AE3	0.492 x 0.787 [12.5 x 20.0]	1010.0	0.22
3300.0	517D338M010DK6AE3	0.492 x 0.984 [12.5 x 25.0]	1220.0	0.22
4700.0	517D478M010EK6AE3	0.630 x 0.984 [16.0 x 25.0]	1410.0	0.22
6800.0	517D688M010EN6AE3	0.630 x 1.240 [16.0 x 31.5]	1610.0	0.22
10 000.0	517D109M010FR6AE3	0.709 x 1.398 [18.0 x 35.5]	1980.0	0.22
15 000.0	517D159M010FV6AE3	0.709 x 1.575 [18.0 x 40.0]	2470.0	0.22



Aluminum Capacitors
+ 105 °C, General Purpose Miniature, Radial Lead

Vishay Sprague

ELECTRICAL DATA AND ORDERING INFORMATION				
CAPACITANCE (μF)	PART NUMBER	NOMINAL CASE SIZE D x L	Max. RIPPLE at + 105 °C 120 Hz (mA)	Max. DF at + 20 °C 120 Hz
16 WVDC at + 105 °C, SURGE = 20 V				
10.0	517D106M016JA6AE3	0.197 x 0.433 [5.0 x 11.0]	35.0	0.18
22.0	517D226M016JA6AE3	0.197 x 0.433 [5.0 x 11.0]	55.0	0.18
33.0	517D336M016JA6AE3	0.197 x 0.433 [5.0 x 11.0]	70.0	0.18
47.0	517D476M016JA6AE3	0.197 x 0.433 [5.0 x 11.0]	85.0	0.18
100.0	517D107M016AA6AE3	0.248 x 0.433 [6.3 x 11.0]	135.0	0.18
220.0	517D227M016BB6AE3	0.315 x 0.453 [8.0 x 11.5]	235.0	0.18
330.0	517D337M016BB6AE3	0.315 x 0.453 [8.0 x 11.5]	285.0	0.18
470.0	517D477M016CC6AE3	0.394 x .0492 [10.0 x 12.5]	395.0	0.18
1000.0	517D108M016CG6AE3	0.394 x 0.787 [10.0 x 20.0]	700.0	0.18
2200.0	517D228M016DK6AE3	0.492 x 0.984 [12.5 x 25.0]	1150.0	0.18
3300.0	517D338M016EK6AE3	0.630 x 0.984 [16.0 x 25.0]	1350.0	0.18
4700.0	517D478M016EN6AE3	0.630 x 1.240 [16.0 x 31.5]	1560.0	0.18
6800.0	517D688M016FR6AE3	0.709 x 1.398 [18.0 x 35.5]	1750.0	0.18
10 000.0	517D109M016FV6AE3	0.709 x 1.575 [18.0 x 40.0]	2170.0	0.18
25 WVDC at + 105 °C, SURGE = 32V				
4.7	517D475M025JA6AE3	0.197 x .0433 [5.0 x 11.0]	24.0	0.16
10.0	517D106M025JA6AE3	0.197 x 0.433 [5.0 x 11.0]	39.0	0.16
22.0	517D226M025JA6AE3	0.197 x 0.433 [5.0 x 11.0]	60.0	0.16
33.0	517D336M025JA6AE3	0.197 x 0.433 [5.0 x 11.0]	75.0	0.16
47.0	517D476M025JA6AE3	0.197 x 0.433 [5.0 x 11.0]	90.0	0.16
100.0	517D107M025AA6AE3	0.248 x 0.433 [6.3 x 11.0]	145.0	0.16
220.0	517D227M025BB6AE3	0.315 x 0.453 [8.0 x 11.5]	250.0	0.16
330.0	517D337M025CC6AE3	0.394 x 0.492 [10.0 x 12.5]	355.0	0.16
470.0	517D477M025CD6AE3	0.394 x 0.630 [10.0 x 16.0]	470.0	0.16
1000.0	517D108M025DG6AE3	0.492 x 0.787 [12.5 x 20.0]	855.0	0.16
2200.0	517D228M025EK6AE3	0.630 x 0.984 [16.0 x 25.0]	1230.0	0.16
3300.0	517D338M025EN6AE3	0.630 x 1.240 [16.0 x 31.5]	1450.0	0.16
4700.0	517D478M025FR6AE3	0.709 x 1.398 [18.0 x 35.5]	1660.0	0.16
35 WVDC at + 105 °C, SURGE = 44 V				
4.7	517D475M035JA6AE3	0.197 x 0.433 [5.0 x 11.0]	27.0	0.13
10.0	517D106M035JA6AE3	0.197 x 0.433 [5.0 x 11.0]	44.0	0.13
22.0	517D226M035JA6AE3	0.197 x 0.433 [5.0 x 11.0]	65.0	0.13
33.0	517D336M035JA6AE3	0.197 x 0.433 [5.0 x 11.0]	85.0	0.13
47.0	517D476M035AA6AE3	0.248 x 0.433 [6.3 x 11.0]	115.0	0.13
100.0	517D107M035BB6AE3	0.315 x 0.453 [8.0 x 11.5]	190.0	0.13
220.0	517D227M035CC6AE3	0.394 x 0.492 [10.0 x 12.5]	325.0	0.13
330.0	517D337M035CD6AE3	0.394 x 0.630 [10.0 x 16.0]	440.0	0.13
470.0	517D477M035CG6AE3	0.394 x 0.787 [10.0 x 20.0]	580.0	0.13
1000.0	517D108M035DK6AE3	0.492 x 0.984 [12.5 x 25.0]	995.0	0.13
2200.0	517D228M035EN6AE3	0.630 x 1.240 [16.0 x 31.5]	1450.0	0.13
3300.0	517D338M035FR6AE3	0.709 x 1.398 [18.0 x 35.5]	1660.0	0.13
4700.0	517D478M035FV6AE3	0.709 x 1.575 [18.0 x 40.0]	2030.0	0.13



ELECTRICAL DATA AND ORDERING INFORMATION				
CAPACITANCE (μF)	PART NUMBER	NOMINAL CASE SIZE D x L	Max. RIPPLE at + 105 °C 120 Hz (mA)	Max. DF at + 20 °C 120 Hz
50 WVDC at + 105 °C, SURGE = 63 V				
0.47	517D474M050JA6AE3	0.197 x 0.433 [5.0 x 11.0]	7.0	0.10
1.0	517D105M050JA6AE3	0.197 x 0.433 [5.0 x 11.0]	12.0	0.10
2.2	517D225M050JA6AE3	0.197 x 0.433 [5.0 x 11.0]	18.0	0.10
3.3	517D335M050JA6AE3	0.197 x 0.433 [5.0 x 11.0]	25.0	0.10
4.7	517D475M050JA6AE3	0.197 x 0.433 [5.0 x 11.0]	30.0	0.10
10.0	517D106M050JA6AE3	0.197 x 0.433 [5.0 x 11.0]	50.0	0.10
22.0	517D226M050JA6AE3	0.197 x 0.433 [5.0 x 11.0]	75.0	0.10
33.0	517D336M050M6AE3	0.248 x 0.433 [6.3 x 11.0]	105.0	0.10
47.0	517D476M050AA6AE3	0.248 x 0.433 [6.3 x 11.0]	125.0	0.10
100.0	517D107M050BB6AE3	0.315 x 0.453 [8.0 x 11.5]	210.0	0.10
220.0	517D227M050CD6AE3	0.394 x 0.630 [10.0 x 16.0]	400.0	0.10
330.0	517D337M050CG6AE3	0.394 x 0.787 [10.0 x 20.0]	535.0	0.10
470.0	517D477M050DG6AE3	0.492 x 0.787 [12.5 x 20.0]	730.0	0.10
1000.0	517D108M050EK6AE3	0.630 x 0.984 [16.0 x 25.0]	1110.0	0.10
2200.0	517D228M050FR6AE3	0.709 x 1.398 [18.0 x 35.5]	1530.0	0.10
63 WVDC at + 105 °C, SURGE = 79 V				
4.7	517D475M063JA6AE3	0.197 x 0.433 [5.0 x 11.0]	34.0	0.09
10.0	517D106M063JA6AE3	0.197 x 0.433 [5.0 x 11.0]	55.0	0.09
22.0	517D226M063AA6AE3	0.248 x 0.433 [6.3 x 11.0]	90.0	0.09
33.0	517D336M063AA6AE3	0.248 x 0.433 [6.3 x 11.0]	110.0	0.09
47.0	517D476M063BB6AE3	0.315 x 0.453 [8.0 x 11.5]	155.0	0.09
100.0	517D107M063CC6AE3	0.394 x .0492 [10.0 x 12.5]	260.0	0.09
220.0	517D227M063CG6AE3	0.394 x 0.787 [10.0 x 20.0]	465.0	0.09
330.0	517D337M063DG6AE3	0.492 x 0.787 [12.5 x 20.0]	650.0	0.09
4700.0	517D477M063DK6AE3	0.492 x 0.984 [12.5 x 25.0]	800.0	0.09
1000.0	517D108M063EN6AE3	0.630 x 1.240 [16.0 x 31.5]	1200.0	0.09
2200.0	517D228M063FV6AE3	0.709 x 1.575 [18.0 x 40.0]	1840.0	0.09
100 WVDC at + 105 °C, SURGE = 125 V				
0.47	517D474M100JA6AE3	0.197 x 0.433 [5.0 x 11.0]	10.0	0.08
1.0	517D105M100JA6AE3	0.197 x 0.433 [5.0 x 11.0]	15.0	0.08
2.2	517D225M100JA6AE3	0.197 x 0.433 [5.0 x 11.0]	22.0	0.08
3.3	517D335M100JA6AE3	0.197 x 0.433 [5.0 x 11.0]	29.0	0.08
4.7	517D475M100JA6AE3	0.197 x 0.433 [5.0 x 11.0]	37.0	0.08
10.0	517D106M100AA6AE3	0.248 x 0.433 [6.3 x 11.0]	65.0	0.08
22.0	517D226M100BB6AE3	0.315 x 0.453 [8.0 x 11.5]	115.0	0.08
33.0	517D336M100CC6AE3	0.394 x 0.492 [10.0 x 12.5]	160.0	0.08
47.0	517D476M100CD6AE3	0.394 x 0.630 [10.0 x 16.0]	220.0	0.08
100.0	517D107M100DG6AE3	0.492 x 0.787 [12.5 x 20.0]	385.0	0.08
220.0	517D227M100EK6AE3	0.630 x 0.984 [16.0 x 25.0]	590.0	0.08
330.0	517D337M100EK6AE3	0.630 x 0.984 [16.0 x 25.0]	720.0	0.08
470.0	517D477M100EN6AE3	0.630 x 1.240 [16.0 x 31.5]	875.0	0.08
1000.0	517D108M100FV6AE3	0.709 x 1.575 [18.0 x 40.0]	1320.0	0.08



ELECTRICAL DATA AND ORDERING INFORMATION				
CAPACITANCE (μF)	PART NUMBER	NOMINAL CASE SIZE D x L	Max. RIPPLE at + 105 °C 120 Hz (mA)	Max. DF at + 20 °C 120 Hz
160 WVDC at + 105 °C, SURGE = 200 V				
0.47	517D474M160AA6AE3	0.248 x 0.433 [6.3 x 11.0]	12.0	0.15
1.0	517D105M160AA6AE3	0.248 x 0.433 [6.3 x 11.0]	17.0	0.15
2.2	517D225M160AA6AE3	0.248 x 0.433 [6.3 x 11.0]	25.0	0.15
3.3	517D335M160BB6AE3	0.315 x 0.453 [8.0 x 11.5]	36.0	0.15
4.7	517D475M160BB6AE3	0.315 x 0.453 [8.0 x 11.5]	43.0	0.15
10.0	517D106M160CC6AE3	0.394 x 0.492 [10.0 x 12.5]	70.0	0.15
22.0	517D226M160CG6AE3	0.394 x 0.787 [10.0 x 20.0]	130.0	0.15
33.0	517D336M160DG6AE3	0.492 x 0.787 [12.5 x 20.0]	180.0	0.15
47.0	517D476M160DK6AE3	0.492 x 0.984 [12.5 x 25.0]	220.0	0.15
100.0	517D107M160EK6AE3	0.630 x 0.984 [16.0 x 25.0]	330.0	0.15
220.0	517D227M160FR6AE3	0.709 x 1.398 [18.0 x 35.5]	500.0	0.15
200 WVDC at + 105 °C, SURGE = 250 V				
0.47	517D474M200AA6AE3	0.248 x 0.433 [6.3 x 11.0]	12.0	0.15
1.0	517D105M200AA6AE3	0.248 x 0.433 [6.3 x 11.0]	17.0	0.15
2.2	517D225M200AA6AE3	0.248 x 0.433 [6.3 x 11.0]	25.0	0.15
3.3	517D335M200BB6AE3	0.315 x 0.453 [8.0 x 11.5]	36.0	0.15
4.7	517D475M200CC6AE3	0.394 x 0.492 [10.0 x 12.5]	50.0	0.15
10.0	517D106M200CD6AE3	0.394 x 0.630 [10.0 x 16.0]	80.0	0.15
22.0	517D226M200CG6AE3	0.394 x 0.787 [10.0 x 20.0]	140.0	0.15
33.0	517D336M200DK6AE3	0.492 x 0.984 [12.5 x 25.0]	198.0	0.15
47.0	517D476M200DK6AE3	0.492 x 0.984 [12.5 x 25.0]	220.0	0.15
100.0	517D107M200EN6AE3	0.630 x 1.240 [16.0 x 31.5]	335.0	0.15
220.0	517D227M200FV6AE3	0.709 x 1.575 [18.0 x 40.0]	515.0	0.15
250 WVDC at + 105 °C, SURGE = 300 V				
0.47	517D474M250AA6AE3	0.248 x 0.433 [6.3 x 11.0]	12.0	0.15
1.0	517D105M250AA6AE3	0.248 x 0.433 [6.3 x 11.0]	17.0	0.15
2.2	517D225M250BB6AE3	0.315 x 0.453 [8.0 x 11.5]	29.0	0.15
3.3	517D335M250CC6AE3	0.394 x 0.492 [10.0 x 12.5]	42.0	0.15
4.7	517D475M250CC6AE3	0.394 x 0.492 [10.0 x 12.5]	50.0	0.15
10.0	517D106M250CG6AE3	0.394 x 0.787 [10.0 x 20.0]	88.0	0.15
22.0	517D226M250DK6AE3	0.492 x 0.984 [12.5 x 25.0]	155.0	0.15
33.0	517D336M250DK6AE3	0.492 x 0.984 [12.5 x 25.0]	190.0	0.15
47.0	517D476M250EK6AE3	0.630 x 0.984 [16.0 x 25.0]	230.0	0.15
100.0	517D107M250FR6AE3	0.709 x 1.398 [18.0 x 35.5]	340.0	0.15



Notice

Specifications of the products displayed herein are subject to change without notice. Vishay Intertechnology, Inc., or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Vishay's terms and conditions of sale for such products, Vishay assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of Vishay products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Vishay for any damages resulting from such improper use or sale.