U37F New! Series

UNITED CHEMI-CON

- Large Can
- Screw Terminals
- General Purpose U37 Grade
- High Ripple
- 350 to 500VDC Ratings
- RoHS Compliant
- 5,000 Hours Lifetime at +85°C
- Up to 150,000 Hours Useful Life

The U37F series is a general purpose, screw mount U37 grade series specifically designed to provide the ripple current capability and long life required for high reliability inverter applications.The U37F has an endurance rating of 5,000 hours at +85°C with the rated ripple current applied. The useful life can exceed 150,000 hours at +40°C and 1.5x the ripple current. These capacitors are available in a variety of high current English or Metric thread terminals. Mounting options include a three-footed clamp or bottom threaded stud. Custom designs are also available.

Summary of Specifications

- Screw terminals: high and low post, English and Metric thread.
- Capacitance range: 1,500 to 22,000μF.
- Voltage range: 350 to 500VDC.
- Category temperature range: −40°C to +85°C.
- Leakage current: 0.02CV(μA) or 5mA, whichever is smaller, after 5 minutes at +25°C.
- Standard capacitance tolerance: ±20%
- Nominal case size (D×L): D = 50mm (2.000") to 89mm (3.500"); L = 92mm (3.625") to 219mm (8.625").
- Rated lifetime: 5,000 hours at +85°C with rated ripple current applied.

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U37F New! Series

U37F Specifications - Screw Terminals

Item	Characteristics
Category Temperature Range	−40 to +85℃
Rated Voltage Range	350 to 500VDC
Capacitance Range	1,500 to 22,000μF at +25℃, 120Hz
Capacitance Tolerance	±20% (M) at +25℃, 120Hz
Leakage Current	I = 0.02CV (μA) or 5mA, whichever is smaller, after 5 minutes at +25℃. Where I = Max. leakage current (μA), C = Nominal capacitance (μF) and V = Rated voltage (V)
Rated Ripple Current Multipliers	Ambient Temperature (℃) +45℃ / +65℃ / +85℃ 2.82 / 1.73 / 1.00 Frequency (Hz) DC Rated Voltage: 50Hz / 120Hz / 300Hz / 1kHz / 3kHz / 10kHz 350-500V: 0.80 / 1.00 / 1.20 / 1.30 / 1.40 / 1.41 To determine maximum ripple current at a specified temperature and frequency, use the appropriate multiplier shown.
Endurance (Load Life)	The following specifications shall be satisfied when the capacitors are restored to +25℃ after subjecting them to DC voltage for 5,000 hours at +85℃ with the rated ripple current applied. The sum of the DC voltage and peak AC voltage must not exceed the full rated voltage of the capacitors. Capacitance change: ≤ 20% from initial measurement ESR change : ≤ 200% of initial specified limit Leakage current : ≤ initial specified limit
Useful Life	With specified standard voltage and ripple current applied, typical life as function of ambient temperature is listed below. +85℃: 6,500 hours max. +65℃: 23,800 hours max. +45℃: 124,700 hours max. Capacitance change: ≤ 30% from initial measurement ESR change : ≤ 300% of initial specified limit Leakage current : ≤ initial specified limit
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to +25℃ after exposing them for 500 hours at +85℃ without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements. Capacitance change: ≤ 20% from initial measurement ESR change : ≤ 200% of initial specified limit Leakage current : ≤ initial specified limit
Vibration Rating	10-55Hz, 10g sinusoidal in three axes, 2 hours per axis.
Maximum Tightening Torque	Terminal Code: HP / HL / CD / CP / CH / CA / CS Thread Size: 10-32 NF-2B / M5x0.8-6H / 1/4-28 NF-2B / M6x1-6H 3 Threads Engaged: 2.0 N·m (18.0 in·lb) / 4.0 N·m (35.0 in·lb) 6 Threads Engaged: 2.8 N·m (25.0 in·lb) / 6.2 N·m (55.0 in·lb)
Typical Inductance (nH) at 1MHz	Case Diameter (mm) / Terminal Code: HP / HL / CD / CP / CH / CA / CS Ø50.8: — / — / NA / NA / NA / NA / NA Ø63.5: — / — / — / — / — / — / — Ø76.2: 30 / 30 / 25 / 20 / 25 / 20 / 25 Ø89.0: 30 / 30 / 25 / 20 / 25 / 20 / 25
Custom Designs	Custom CV values per case size and termination type may be available upon request. Contact appropriate representative with specific requirements.

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U37F New! Series

U37F Useful Life

Useful Life: 6,500 Hours at +85°C

The life expectancy of a capacitor is shown as a function of ambient temperature and ripple current load.

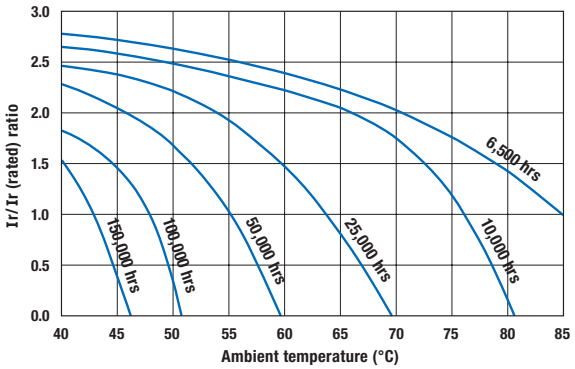
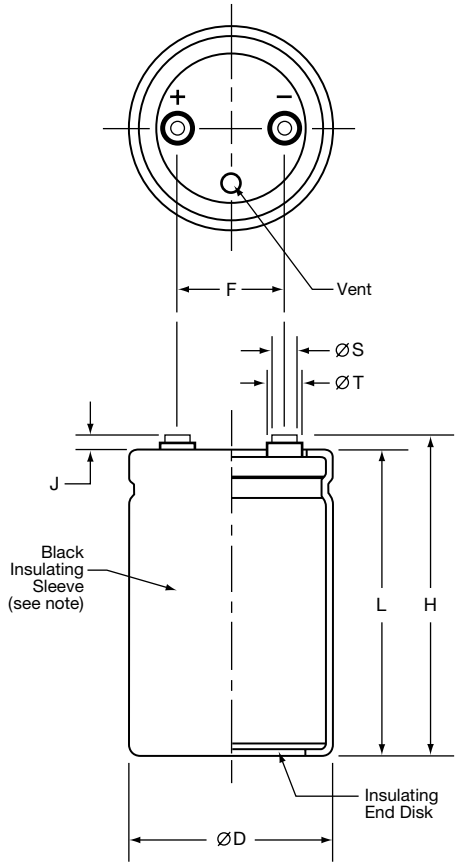


Diagram of Dimensions - Screw Terminals

Large Can/Screw Terminals

Unit: mm (inches)



Case Dimensions and Standard Box Quantities

Case Size Code	øD +2.0 (0.080)	L ±1.0 (0.040)	F ±0.25 (0.010)	Standard Box Quantity
CB7 CD0	50.8 (2.000)	117 (4.625) 130 (5.125)	22.2 (0.875)	49
D92 DA5 DB7 DD0 DE3	63.5 (2.500)	92 (3.625) 105 (4.125) 117 (4.625) 130 (5.125) 143 (5.625)	28.6 (1.125)	20
E92 EA5 EB7 EE3 EJ1 EM9	76.2 (3.000)	92 (3.625) 105 (4.125) 117 (4.625) 143 (5.625) 181 (7.125) 219 (8.625)	31.8 (1.250)	16 9
F92 FA5 FB7 FE3 FF5 FK0 FM9	89.0 (3.500)	92 (3.625) 105 (4.125) 117 (4.625) 143 (5.625) 155 (6.125) 190 (7.500) 219 (8.625)	31.8 (1.250)	5

Note:
In some cases, the color of the sleeve may change slightly due to the operating conditions, however, the discoloration will not impair capacitor function.

Terminal Specifications

Terminal Code	Available Case Diameter		Thread Size	Minimum Thread Depth	J ±0.5 (0.020)	H ±2.0 (0.080)	øS ±0.25 (0.010)	øT ±0.25 (0.010)
	øD Code	øD mm (inches)						
HP	C	50.8 (2.000)	10-32 NF-2B	9.5 (0.375)	6.4 (0.250)	L+J	8.0 (0.313)	11.1 (0.438)
HL	C	50.8 (2.000)	M5x0.8-6H	9.5 (0.375)	6.4 (0.250)	L+J	8.0 (0.313)	11.1 (0.438)
CD	D–E	63.5 – 76.2 (2.500 – 3.000)	M5x0.8-6H	8.5 (0.335)	5.0 (0.200)	L+J	13.0 (0.512)	18.8 (0.740)
CP	D–F	63.5 – 89.0 (2.500 – 3.500)	1/4-28 NF-2B	8.7 (0.344)	2.4 (0.093)	L+J	17.5 (0.689)	—
CH	D–F	63.5 – 89.0 (2.500 – 3.500)	1/4-28 NF-2B	11.9 (0.468)	6.4 (0.250)	L+J	17.5 (0.689)	—
CA	D–F	63.5 – 89.0 (2.500 – 3.500)	M6x1-6H	8.7 (0.344)	2.4 (0.093)	L+J	17.5 (0.689)	—
CS	D–F	63.5 – 89.0 (2.500 – 3.500)	M6x1-6H	11.9 (0.468)	6.4 (0.250)	L+J	17.5 (0.689)	—

Mounting Hardware is optional. Refer to hardware specifications on the following page.

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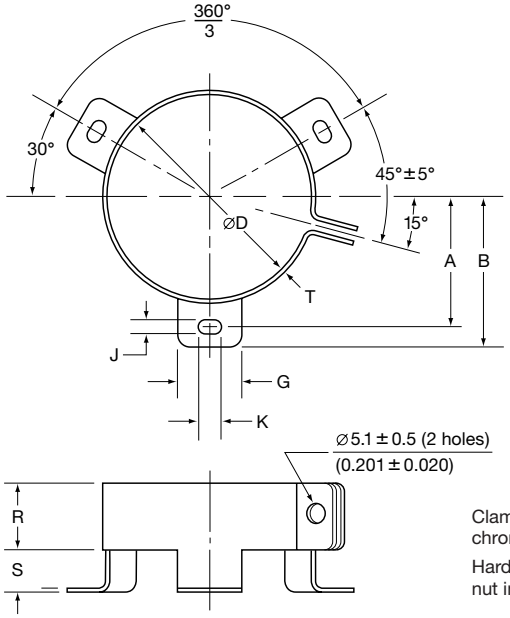
Mounting Hardware - Screw Terminals

Type C: Three-Footed Clamp

Unit: mm (inches)



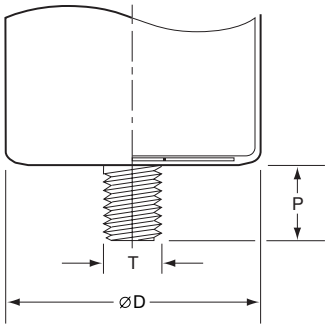
Clamp: Zinc with silver trivalent chromate post treatment.

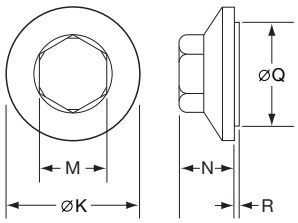
Hardware: Screw, washer and hexagon nut included with each clamp.

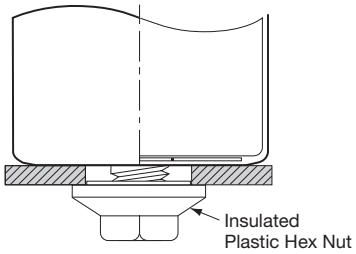
Type C: Clamp Dimensions

Mounting Code	Case ØD	A ±1.0 (0.040)	B ±1.0 (0.040)	G ±1.0 (0.040)	J ±0.5 (0.020)	K ±0.5 (0.020)	R ±1.0 (0.040)	S ±1.0 (0.040)	T ±0.5 (0.020)
C	50.8 (2.000)	31.8 (1.250)	36.5 (1.437)	13.3 (0.524)	4.5 (0.177)	7.1 (0.280)	19.1 (0.751)	9.5 (0.374)	0.8 (0.032)
C	63.5 (2.500)	38.1 (1.500)	42.9 (1.689)	13.3 (0.524)	4.5 (0.177)	7.1 (0.280)	19.1 (0.751)	9.5 (0.374)	0.8 (0.032)
C	76.2 (3.000)	44.5 (1.750)	49.2 (1.937)	13.3 (0.524)	4.5 (0.177)	7.1 (0.280)	19.1 (0.751)	9.5 (0.374)	1.0 (0.040)
C	89.0 (3.500)	50.8 (2.000)	56.5 (2.224)	16.0 (0.630)	4.5 (0.177)	8.0 (0.313)	21.0 (0.827)	9.0 (0.354)	1.0 (0.040)

Type S: Stud Mounting







Mounting Nut - Order Separately

The insulated plastic mounting nut is not included with stud mount capacitor orders. It must be ordered separately. See available part numbers below.

Type S: Stud Dimensions

Mounting Code	P ±1.0 (0.040)	T Thread Size
S	16.0 (0.630)	M12

Mounting Nut Dimensions

Part Number	ØK ±2.0 (0.080)	M ±1.0 (0.040)	N ±1.0 (0.040)	ØQ ±1.0 (0.040)	R ±1.0 (0.040)
50-8D	30.0 (1.181)	19.0 (0.748)	18.0 (0.709)	22.0 (0.866)	1.40 (0.055)
50-8E	38.0 (1.496)	19.0 (0.748)	18.0 (0.709)	30.0 (1.181)	1.40 (0.055)

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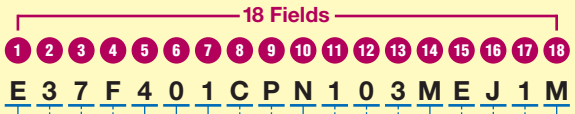
Part Numbering System for U37F Series

When ordering, always specify complete 18-field global part number.



9 Supplement Code. Field 18.
C = PET insulation with end disk (Ø50.8mm only).
M = Pb-free PVC insulation with end disk.
S = Polyolefin insulation with end disk.

8 Case Size. Fields 15, 16 and 17.
The single letter diameter code is inserted in field 15.
C = Ø50.8mm (Ø2.000")
D = Ø63.5mm (Ø2.500")
E = Ø76.2mm (Ø3.000")
F = Ø89.0mm (Ø3.500")

The double character length code is inserted in fields 16 and 17. For lengths ≤99mm, insert the actual length rounded to nearest millimeter. For lengths of 100mm or more, insert the appropriate alpha numeric code as indicated below.
92 = 92mm (3.625")
A5 = 105mm (4.125")
B7 = 117mm (4.625")
D0 = 130mm (5.125")
E3 = 143mm (5.625")
F5 = 155mm (6.125")
J1 = 181mm (7.125")
K0 = 190mm (7.500")
M9 = 219mm (8.625")

7 Capacitance Tolerance. Field 14.
M = ±20%

6 Capacitance. Fields 11, 12 and 13.
Expressed in Microfarads. The first two digits are significant figures inserted in fields 11 and 12, and the third digit inserted in field 13 indicates the number of zeros for capacitance of 10μF or more. R indicates the decimal point for capacitance less than 10μF (e.g. 1R0 = 1.0μF; 100 = 10μF; 101 = 100μF; 102 = 1,000μF; 103 = 10,000μF).

5 Mounting Hardware. Field 10.
N = None.
C = Three-footed clamp.
S = Stud mount. *The mounting nut is not included with stud mount orders. It must be ordered separately.*

4 Terminal Type. Fields 8 and 9.
HP = High post 10-32 NF-2B screw thread.
HL = High post M5x0.8 screw thread.
CD = M5x0.8 screw thread.
CP = Low post 1/4-28 NF-2B screw thread.
CH = High post 1/4-28 NF-2B screw thread.
CA = Low post M6x1 screw thread.
CS = High post M6x1 screw thread.

3 DC Rated Voltage. Fields 5, 6 and 7.
Expressed in Volts. The first two digits are significant figures inserted in fields 5 and 6, and the third digit inserted in field 7 indicates the number of zeros for rated voltage of 10VDC or more. R indicates the decimal point for rated voltage less than 10VDC (e.g. 4R0 = 4.0VDC; 400 = 40VDC; 401 = 400VDC).

2 Series Name. Fields 2, 3 and 4.
Enter the 3-letter/digit series name in fields 2, 3 and 4. If the series name is only 2 letters/digits, place a dash in field 4. For a series name with more than 3 letters/digits, refer to the individual series for the appropriate 3-field series name.

1 Capacitor Type. Field 1.
Aluminum Electrolytic Capacitor (Polar).

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Standard Voltage Ratings - Screw Terminals

Rated Voltage (WVDC)	Capacitance (μF)	Global Part Number†	Nominal Case Size* D×L (mm)	Case Size Code	Maximum ESR (mΩ) at +25°C, 120Hz	Rated Ripple Current (A rms) at +85°C		
						120Hz	300Hz	>3kHz
350 Volts 400 Volts Surge	3,300	E37F351HPN332MCB7M	50 × 117	CB7	28	10.8	12.9	15.1
	3,900	E37F351HPN392MCD0M	50 × 130	CD0	23	12.2	14.6	17.0
	3,300	E37F351CPN332MD92M	63.5 × 92	D92	28	11.2	13.4	15.6
	3,900	E37F351CPN392MDA5M	63.5 × 105	DA5	23	12.7	15.2	17.7
	4,700	E37F351CPN472MDB7M	63.5 × 117	DB7	19	14.5	17.4	20.3
	5,600	E37F351CPN562MDD0M	63.5 × 130	DD0	16	16.4	19.7	22.9
	5,600	E37F351CPN562MDE3M	63.5 × 143	DE3	16	17.0	20.4	23.7
	4,700	E37F351CPN472ME92M	76.2 × 92	E92	20	14.5	17.4	20.2
	5,600	E37F351CPN562MEA5M	76.2 × 105	EA5	17	16.5	19.8	23.1
	6,800	E37F351CPN682MEB7M	76.2 × 117	EB7	14	18.9	22.6	26.4
	8,200	E37F351CPN822MEE3M	76.2 × 143	EE3	12	22.2	26.7	31.1
	12,000	E37F351CPN123MEJ1M	76.2 × 181	EJ1	8	29.4	35.2	41.1
	15,000	E37F351CPN153MEM9M	76.2 × 219	EM9	6	35.4	42.5	49.6
	6,800	E37F351CPN682MF92M	89 × 92	F92	14	19.1	22.9	26.7
	8,200	E37F351CPN822MFA5M	89 × 105	FA5	12	21.8	26.2	30.5
	10,000	E37F351CPN103MFB7M	89 × 117	FB7	10	25.0	30.0	35.0
	12,000	E37F351CPN123MFE3M	89 × 143	FE3	8	29.3	35.2	41.1
	15,000	E37F351CPN153MFF5M	89 × 155	FF5	6	33.8	40.5	47.3
	18,000	E37F351CPN183MFK0M	89 × 190	FK0	5	40.0	47.9	55.9
	22,000	E37F351CPN223MFM9M	89 × 219	FM9	4	46.7	56.0	65.4
400 Volts 450 Volts Surge	2,700	E37F401HPN272MCB7M	50 × 117	CB7	30	10.4	12.5	14.6
	3,300	E37F401HPN332MCD0M	50 × 130	CD0	26	11.6	13.9	16.2
	2,700	E37F401CPN272MD92M	63.5 × 92	D92	30	10.7	12.9	15.0
	3,300	E37F401CPN332MDA5M	63.5 × 105	DA5	25	12.3	14.7	17.2
	3,900	E37F401CPN392MDB7M	63.5 × 117	DB7	21	13.8	16.5	19.3
	4,700	E37F401CPN472MDD0M	63.5 × 130	DD0	19	15.3	18.3	21.4
	4,700	E37F401CPN472MDE3M	63.5 × 143	DE3	17	16.8	20.1	23.5
	3,900	E37F401CPN392ME92M	76.2 × 92	E92	21	14.3	17.2	20.0
	5,600	E37F401CPN562MEA5M	76.2 × 105	EA5	17	16.4	19.6	22.9
	5,600	E37F401CPN562MEB7M	76.2 × 117	EB7	15	18.4	22.0	25.7
	8,200	E37F401CPN822MEE3M	76.2 × 143	EE3	12	22.3	26.8	31.3
	10,000	E37F401CPN103MEJ1M	76.2 × 181	EJ1	9	28.2	33.8	39.5
	12,000	E37F401CPN123MEM9M	76.2 × 219	EM9	7	34.0	40.8	47.6
	5,600	E37F401CPN562MF92M	89 × 92	F92	15	18.6	22.3	26.1
	6,800	E37F401CPN682MFA5M	89 × 105	FA5	12	21.2	25.5	29.7
	8,200	E37F401CPN822MFB7M	89 × 117	FB7	11	23.8	28.6	33.4
	10,000	E37F401CPN103MFE3M	89 × 143	FE3	8	28.9	34.7	40.5
	12,000	E37F401CPN123MFF5M	89 × 155	FF5	7	31.4	37.7	44.0
	15,000	E37F401CPN153MFK0M	89 × 190	FK0	6	38.3	45.9	53.6
	18,000	E37F401CPN183MFM9M	89 × 219	FM9	5	43.9	52.7	61.5
420 Volts 470 Volts Surge	2,700	E37F421HPN272MCB7M	50 × 117	CB7	34	9.8	11.7	13.7
	3,300	E37F421HPN332MCD0M	50 × 130	CD0	28	11.2	13.4	15.7
	2,700	E37F421CPN272MD92M	63.5 × 92	D92	34	10.1	12.1	14.1
	3,300	E37F421CPN332MDA5M	63.5 × 105	DA5	28	11.7	14.0	16.3
	3,900	E37F421CPN392MDB7M	63.5 × 117	DB7	23	13.2	15.8	18.5
	3,900	E37F421CPN392MDD0M	63.5 × 130	DD0	23	13.7	16.4	19.1
	4,700	E37F421CPN472MDE3M	63.5 × 143	DE3	19	15.5	18.6	21.8
	3,900	E37F421CPN392ME92M	76.2 × 92	E92	24	13.2	15.8	18.4
	4,700	E37F421CPN472MEA5M	76.2 × 105	EA5	20	15.1	18.1	21.1
	5,600	E37F421CPN562MEB7M	76.2 × 117	EB7	17	17.1	20.5	24.0
	6,800	E37F421CPN682MEE3M	76.2 × 143	EE3	14	20.2	24.3	28.3
	10,000	E37F421CPN103MEJ1M	76.2 × 181	EJ1	10	26.8	32.2	37.5
	12,000	E37F421CPN123MEM9M	76.2 × 219	EM9	8	31.7	38.0	44.4
	5,600	E37F421CPN562MF92M	89 × 92	F92	17	17.3	20.8	24.2
	6,800	E37F421CPN682MFA5M	89 × 105	FA5	14	19.9	23.8	27.8

†For terminal, mounting and construction options, refer to the part numbering system for descriptions and codes.
*** Refer to diagram of dimensions for detailed case size specifications.**

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Standard Voltage Ratings - Screw Terminals

Rated Voltage (WVDC)	Capacitance (μF)	Global Part Number†	Nominal Case Size* D×L (mm)	Case Size Code	Maximum ESR (mΩ) at +25°C, 120Hz	Rated Ripple Current (A rms) at +85°C		
						120Hz	300Hz	>3kHz
420 Volts 470 Volts Surge	8,200	E37F421CPN822MFB7M	89 × 117	FB7	12	22.7	27.2	31.7
	10,000	E37F421CPN103MFE3M	89 × 143	FE3	10	26.8	32.1	37.5
	12,000	E37F421CPN123MFF5M	89 × 155	FF5	8	30.3	36.3	42.4
	15,000	E37F421CPN153MFK0M	89 × 190	FK0	6	36.5	43.8	51.1
	18,000	E37F421CPN183MFM9M	89 × 219	FM9	5	42.2	50.7	59.1
450 Volts 500 Volts Surge	2,700	E37F451HPN272MCB7M	50 × 117	CB7	34	9.8	11.7	13.7
	2,700	E37F451HPN272MCD0M	50 × 130	CD0	34	10.1	12.1	14.2
	2,200	E37F451CPN222MD92M	63.5 × 92	D92	42	9.1	10.9	12.8
	2,700	E37F451CPN272MDA5M	63.5 × 105	DA5	34	10.5	12.7	14.8
	3,300	E37F451CPN332MDB7M	63.5 × 117	DB7	28	12.1	14.6	17.0
	3,900	E37F451CPN392MDD0M	63.5 × 130	DD0	23	13.7	16.4	19.1
	4,700	E37F451CPN472MDE3M	63.5 × 143	DE3	19	15.5	18.6	21.8
	3,900	E37F451CPN392ME92M	76.2 × 92	E92	24	13.2	15.8	18.4
	4,700	E37F451CPN472MEA5M	76.2 × 105	EA5	20	15.1	18.1	21.1
	5,600	E37F451CPN562MEB7M	76.2 × 117	EB7	17	17.1	20.5	24.0
	6,800	E37F451CPN682MEE3M	76.2 × 143	EE3	14	20.2	24.3	28.3
	8,200	E37F451CPN822MEJ1M	76.2 × 181	EJ1	12	24.3	29.1	34.0
	12,000	E37F451CPN123MEM9M	76.2 × 219	EM9	8	31.7	38.0	44.4
	5,600	E37F451CPN562MF92M	89 × 92	F92	17	17.3	20.8	24.2
	6,800	E37F451CPN682MFA5M	89 × 105	FA5	14	19.9	23.8	27.8
	6,800	E37F451CPN682MFB7M	89 × 117	FB7	14	20.6	24.8	28.9
	8,200	E37F451CPN822MFE3M	89 × 143	FE3	12	24.3	29.1	34.0
	12,000	E37F451CPN123MFF5M	89 × 155	FF5	8	30.2	36.3	42.3
	15,000	E37F451CPN153MFK0M	89 × 190	FK0	6	36.5	43.8	51.1
	15,000	E37F451CPN153MFM9M	89 × 219	FM9	6	38.6	46.3	54.0
500 Volts 550 Volts Surge	1,500	E37F501HPN152MCB7M	50 × 117	CB7	63	7.2	8.6	10.1
	1,800	E37F501HPN182MCD0M	50 × 130	CD0	55	8.0	9.6	11.2
	1,800	E37F501CPN182MD92M	63.5 × 92	D92	52	8.2	9.8	11.5
	2,200	E37F501CPN222MDA5M	63.5 × 105	DA5	43	9.4	11.2	13.1
	2,700	E37F501CPN272MDB7M	63.5 × 117	DB7	37	10.5	12.6	14.7
	3,300	E37F501CPN332MDD0M	63.5 × 130	DD0	32	11.7	14.0	16.3
	3,300	E37F501CPN332MDE3M	63.5 × 143	DE3	29	12.8	15.4	17.9
	2,700	E37F501CPN272ME92M	76.2 × 92	E92	36	10.9	13.1	15.3
	3,300	E37F501CPN332MEA5M	76.2 × 105	EA5	30	12.5	15.0	17.5
	3,900	E37F501CPN392MEB7M	76.2 × 117	EB7	25	14.0	16.8	19.6
	5,600	E37F501CPN562MEE3M	76.2 × 143	EE3	20	17.1	20.5	23.9
	6,800	E37F501CPN682MEJ1M	76.2 × 181	EJ1	15	21.5	25.8	30.1
	8,200	E37F501CPN822MEM9M	76.2 × 219	EM9	12	26.0	31.2	36.3
	3,900	E37F501CPN392MF92M	89 × 92	F92	25	14.2	17.1	19.9
	4,700	E37F501CPN472MFA5M	89 × 105	FA5	21	16.2	19.5	22.7
	5,600	E37F501CPN562MFB7M	89 × 117	FB7	18	18.2	21.8	25.5
	6,800	E37F501CPN682MFE3M	89 × 143	FE3	14	22.1	26.5	30.9
	8,200	E37F501CPN822MFF5M	89 × 155	FF5	13	24.0	28.8	33.6
	10,000	E37F501CPN103MFK0M	89 × 190	FK0	10	29.2	35.1	40.9
	12,000	E37F501CPN123MFM9M	89 × 219	FM9	8	33.5	40.2	46.9

†For terminal, mounting and construction options, refer to the part numbering system for descriptions and codes.
*** Refer to diagram of dimensions for detailed case size specifications.**

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