

Overview

The KEMET ETA radial aluminum electrolytic capacitors are designed for long life (4,000 – 10,000 hours), high reliability, and low impedance applications.

Applications

Typical applications include SMPS, power supplies, adaptors, chargers, monitors, and computers.

Benefits

- Long life, up to 10,000 hours
- Low impedance
- Operating temperature of up to 105°C
- Safety vent on the capacitor base



Part Number System

| ETA | 157 | M | 6R3 | A | C3 | AA |
|------------------------------|--|-----------|---|-----------------------|---------------------|----------------------------|
| Series | Capacitance Code (pF) | Tolerance | Rated Voltage (VDC) | Electrical Parameters | Size Code | Packaging |
| Radial Aluminum Electrolytic | First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added. | M = ±20% | 6R3 = 6.3 010 = 10 016 = 16 025 = 25 035 = 35 | A = Standard | See Dimension Table | See Ordering Options Table |

Table 1 – Ratings & Part Number Reference

| VDC | VDC Surge Voltage | Rated Capacitance 120 Hz 20°C (μF) | Case Size D x L (mm) | DF 120 Hz 20°C (tan δ %)* | RC 100 kHz 105°C (mA) | Z 100 kHz 20°C (Ω) | LC 20°C 2 Minutes (μA) | Part Number |
|-----|-------------------|--|-------------------------|---------------------------------|-----------------------------|--------------------------|------------------------------|------------------|
| 6.3 | 8 | 150 | 5 x 11 | 22 | 210 | 0.58 | 9.5 | ETA157M6R3AC3(1) |
| 6.3 | 8 | 330 | 6.3 x 11 | 22 | 340 | 0.22 | 20.8 | ETA337M6R3AE3(1) |
| 6.3 | 8 | 680 | 8 x 11 | 22 | 640 | 0.13 | 42.8 | ETA687M6R3AG3(1) |
| 6.3 | 8 | 820 | 10 x 12.5 | 22 | 865 | 0.080 | 51.7 | ETA827M6R3AH9(1) |
| 6.3 | 8 | 1,000 | 8 x 15 | 22 | 840 | 0.087 | 63.0 | ETA108M6R3AG4(1) |
| 6.3 | 8 | 1,200 | 8 x 20 | 22 | 1,050 | 0.069 | 75.6 | ETA128M6R3AG6(1) |
| 6.3 | 8 | 1,200 | 10 x 15 | 22 | 1,210 | 0.060 | 75.6 | ETA128M6R3AH2(1) |
| 6.3 | 8 | 1,500 | 10 x 20 | 22 | 1,400 | 0.046 | 94.5 | ETA158M6R3AH4(1) |
| 6.3 | 8 | 1,800 | 13 x 16 | 22 | 1,450 | 0.049 | 113.4 | ETA188M6R3AL2(1) |
| 6.3 | 8 | 2,200 | 10 x 25 | 22 | 1,650 | 0.042 | 138.6 | ETA228M6R3AH5(1) |
| 6.3 | 8 | 2,700 | 10 x 30 | 22 | 1,910 | 0.031 | 170.1 | ETA278M6R3AH6(1) |
| 6.3 | 8 | 3,300 | 13 x 20 | 22 | 1,900 | 0.035 | 207.9 | ETA338M6R3AL3(1) |
| 6.3 | 8 | 3,900 | 13 x 25 | 22 | 2,230 | 0.027 | 245.7 | ETA398M6R3AL4(1) |
| 6.3 | 8 | 4,700 | 13 x 30 | 22 | 2,650 | 0.024 | 296.1 | ETA478M6R3AL8(1) |
| 6.3 | 8 | 5,600 | 13 x 35 | 22 | 2,880 | 0.020 | 352.8 | ETA568M6R3AL6(1) |
| 6.3 | 8 | 5,600 | 16 x 20 | 22 | 2,530 | 0.027 | 352.8 | ETA568M6R3AM5(1) |
| 6.3 | 8 | 6,800 | 13 x 40 | 22 | 3,350 | 0.017 | 428.4 | ETA688M6R3AL7(1) |
| 6.3 | 8 | 6,800 | 16 x 25 | 22 | 2,930 | 0.021 | 428.4 | ETA688M6R3AM7(1) |
| 6.3 | 8 | 6,800 | 18 x 20 | 22 | 2,860 | 0.026 | 428.4 | ETA688M6R3AN4(1) |
| 6.3 | 8 | 8,200 | 16 x 32 | 22 | 3,450 | 0.017 | 516.6 | ETA828M6R3AM2(1) |
| 10 | 13 | 100 | 5 x 11 | 19 | 210 | 0.58 | 10.0 | ETA107M010AC3(1) |
| 10 | 13 | 220 | 6.3 x 11 | 19 | 340 | 0.220 | 22.0 | ETA227M010AE3(1) |
| 10 | 13 | 470 | 8 x 11 | 19 | 640 | 0.130 | 47.0 | ETA477M010AG3(1) |
| 10 | 13 | 680 | 8 x 15 | 19 | 840 | 0.087 | 68.0 | ETA687M010AG4(1) |
| 10 | 13 | 680 | 10 x 12.5 | 19 | 865 | 0.080 | 68.0 | ETA687M010AH9(1) |
| 10 | 13 | 1,000 | 8 x 20 | 19 | 1,050 | 0.069 | 100.0 | ETA108M010AG6(1) |
| 10 | 13 | 1,000 | 10 x 15 | 19 | 1,210 | 0.060 | 100.0 | ETA108M010AH2(1) |
| 10 | 13 | 1,200 | 10 x 20 | 19 | 1,400 | 0.046 | 120.0 | ETA128M010AH4(1) |
| 10 | 13 | 1,500 | 10 x 25 | 19 | 1,650 | 0.042 | 150.0 | ETA158M010AH5(1) |
| 10 | 13 | 1,500 | 13 x 16 | 19 | 1,450 | 0.049 | 150.0 | ETA158M010AL2(1) |
| 10 | 13 | 2,200 | 10 x 30 | 19 | 1,910 | 0.031 | 220.0 | ETA228M010AH6(1) |
| 10 | 13 | 2,200 | 13 x 20 | 19 | 1,900 | 0.035 | 220.0 | ETA228M010AL3(1) |
| 10 | 13 | 3,300 | 13 x 25 | 19 | 2,230 | 0.027 | 330.0 | ETA338M010AL4(1) |
| 10 | 13 | 3,900 | 13 x 30 | 19 | 2,650 | 0.024 | 390.0 | ETA398M010AL8(1) |
| 10 | 13 | 3,900 | 16 x 20 | 19 | 2,530 | 0.027 | 390.0 | ETA398M010AM5(1) |
| 10 | 13 | 4,700 | 13 x 35 | 19 | 2,880 | 0.020 | 470.0 | ETA478M010AL6(1) |
| 10 | 13 | 5,600 | 13 x 40 | 19 | 3,350 | 0.017 | 560.0 | ETA568M010AL7(1) |
| 10 | 13 | 5,600 | 16 x 25 | 19 | 2,930 | 0.021 | 560.0 | ETA568M010AM7(1) |
| 10 | 13 | 5,600 | 18 x 20 | 19 | 2,860 | 0.026 | 560.0 | ETA568M010AN4(1) |
| 10 | 13 | 6,800 | 16 x 32 | 19 | 3,450 | 0.017 | 680.0 | ETA688M010AM2(1) |
| 10 | 13 | 6,800 | 18 x 25 | 19 | 3,140 | 0.019 | 680.0 | ETA688M010AN5(1) |
| 10 | 13 | 8,200 | 16 x 36 | 19 | 3,610 | 0.015 | 820.0 | ETA828M010AM3(1) |
| 10 | 13 | 8,200 | 18 x 32 | 19 | 4,170 | 0.015 | 820.0 | ETA828M010AN1(1) |
| 16 | 20 | 56 | 5 x 11 | 16 | 210 | 0.58 | 9.0 | ETA566M016AC3(1) |
| 16 | 20 | 120 | 6.3 x 11 | 16 | 340 | 0.22 | 19.2 | ETA127M016AE3(1) |
| 16 | 20 | 330 | 8 x 11 | 16 | 640 | 0.130 | 52.8 | ETA337M016AG3(1) |
| 16 | 20 | 470 | 8 x 15 | 16 | 840 | 0.087 | 75.2 | ETA477M016AG4(1) |
| 16 | 20 | 470 | 10 x 12.5 | 16 | 865 | 0.080 | 75.2 | ETA477M016AH9(1) |
| 16 | 20 | 680 | 8 x 20 | 16 | 1,050 | 0.069 | 108.8 | ETA687M016AG6(1) |
| 16 | 20 | 680 | 10 x 15 | 16 | 1,210 | 0.060 | 108.8 | ETA687M016AH2(1) |
| 16 | 20 | 1,000 | 10 x 20 | 16 | 1,400 | 0.046 | 160.0 | ETA108M016AH4(1) |
| 16 | 20 | 1,000 | 13 x 16 | 16 | 1,450 | 0.049 | 160.0 | ETA108M016AL2(1) |
| 16 | 20 | 1,200 | 10 x 25 | 16 | 1,650 | 0.042 | 192.0 | ETA128M016AH5(1) |
| 16 | 20 | 1,500 | 10 x 30 | 16 | 1,910 | 0.031 | 240.0 | ETA158M016AH6(1) |
| 16 | 20 | 1,500 | 13 x 20 | 16 | 1,900 | 0.035 | 240.0 | ETA158M016AL3(1) |
| 16 | 20 | 2,200 | 13 x 25 | 16 | 2,230 | 0.027 | 352.0 | ETA228M016AL4(1) |
| VDC | VDC Surge | Rated Capacitance | Case Size | DF | RC | Z | LC | Part Number |

(1) Insert packaging code. See Ordering Options Table for available options.

* When capacitance exceeds 1,000 μF, the DF value (%) is increased by 2% for every additional 1,000 μF.

Table 1 – Ratings & Part Number Reference cont.

| VDC | VDC Surge Voltage | Rated Capacitance 120 Hz 20°C (μF) | Case Size D x L (mm) | DF 120 Hz 20°C (tan δ %)* | RC 100 kHz 105°C (mA) | Z 100 kHz 20°C (Ω) | LC 20°C 2 Minutes (μA) | Part Number |
|-----|-------------------|--|-------------------------|---------------------------------|-----------------------------|--------------------------|------------------------------|------------------|
| 16 | 20 | 2,700 | 13 x 30 | 16 | 2,650 | 0.024 | 432.0 | ETA278M016AL8(1) |
| 16 | 20 | 2,700 | 16 x 20 | 16 | 2,530 | 0.027 | 432.0 | ETA278M016AM5(1) |
| 16 | 20 | 3,300 | 13 x 35 | 16 | 2,880 | 0.020 | 528.0 | ETA338M016AL6(1) |
| 16 | 20 | 3,900 | 13 x 40 | 16 | 3,350 | 0.017 | 624.0 | ETA398M016AL7(1) |
| 16 | 20 | 3,900 | 16 x 25 | 16 | 2,930 | 0.021 | 624.0 | ETA398M016AM7(1) |
| 16 | 20 | 3,900 | 18 x 20 | 16 | 2,860 | 0.026 | 624.0 | ETA398M016AN4(1) |
| 16 | 20 | 4,700 | 16 x 32 | 16 | 3,450 | 0.017 | 752.0 | ETA478M016AM2(1) |
| 16 | 20 | 4,700 | 18 x 25 | 16 | 3,140 | 0.019 | 752.0 | ETA478M016AN5(1) |
| 16 | 20 | 5,600 | 16 x 36 | 16 | 3,610 | 0.015 | 896.0 | ETA568M016AM3(1) |
| 16 | 20 | 5,600 | 18 x 32 | 16 | 4,170 | 0.015 | 896.0 | ETA568M016AN1(1) |
| 16 | 20 | 6,800 | 16 x 40 | 16 | 4,080 | 0.013 | 1088.0 | ETA688M016AM4(1) |
| 16 | 20 | 8,200 | 18 x 36 | 16 | 4,220 | 0.014 | 1312.0 | ETA828M016AN2(1) |
| 25 | 32 | 47 | 5 x 11 | 14 | 210 | 0.58 | 11.8 | ETA476M025AC3(1) |
| 25 | 32 | 100 | 6.3 x 11 | 14 | 340 | 0.22 | 25.0 | ETA107M025AE3(1) |
| 25 | 32 | 220 | 8 x 11 | 14 | 640 | 0.13 | 55.0 | ETA227M025AG3(1) |
| 25 | 32 | 330 | 8 x 15 | 14 | 840 | 0.087 | 82.5 | ETA337M025AG4(1) |
| 25 | 32 | 330 | 10 x 12.5 | 14 | 865 | 0.080 | 82.5 | ETA337M025AH9(1) |
| 25 | 32 | 470 | 8 x 20 | 14 | 1,050 | 0.069 | 117.5 | ETA477M025AG6(1) |
| 25 | 32 | 470 | 10 x 15 | 14 | 1,210 | 0.060 | 117.5 | ETA477M025AH2(1) |
| 25 | 32 | 680 | 10 x 20 | 14 | 1,400 | 0.046 | 170.0 | ETA687M025AH4(1) |
| 25 | 32 | 680 | 13 x 16 | 14 | 1,450 | 0.049 | 170.0 | ETA687M025AL2(1) |
| 25 | 32 | 820 | 10 x 25 | 14 | 1,650 | 0.042 | 205.0 | ETA827M025AH5(1) |
| 25 | 32 | 1,000 | 10 x 30 | 14 | 1,910 | 0.031 | 250.0 | ETA108M025AH6(1) |
| 25 | 32 | 1,000 | 13 x 20 | 14 | 1,900 | 0.035 | 250.0 | ETA108M025AL3(1) |
| 25 | 32 | 1,500 | 13 x 25 | 14 | 2,230 | 0.027 | 375.0 | ETA158M025AL4(1) |
| 25 | 32 | 1,800 | 13 x 30 | 14 | 2,650 | 0.024 | 450.0 | ETA188M025AL8(1) |
| 25 | 32 | 1,800 | 16 x 20 | 14 | 2,530 | 0.027 | 450.0 | ETA188M025AM5(1) |
| 25 | 32 | 2,200 | 13 x 35 | 14 | 2,880 | 0.020 | 550.0 | ETA228M025AL6(1) |
| 25 | 32 | 2,200 | 18 x 20 | 14 | 2,860 | 0.026 | 550.0 | ETA228M025AN4(1) |
| 25 | 32 | 2,700 | 13 x 40 | 14 | 3,350 | 0.017 | 675.0 | ETA278M025AL7(1) |
| 25 | 32 | 2,700 | 16 x 25 | 14 | 2,930 | 0.021 | 675.0 | ETA278M025AM7(1) |
| 25 | 32 | 3,300 | 16 x 32 | 14 | 3,450 | 0.017 | 825.0 | ETA338M025AM2(1) |
| 25 | 32 | 3,300 | 18 x 25 | 14 | 3,140 | 0.019 | 825.0 | ETA338M025AN5(1) |
| 25 | 32 | 3,900 | 16 x 36 | 14 | 3,610 | 0.015 | 975.0 | ETA398M025AM3(1) |
| 25 | 32 | 3,900 | 18 x 32 | 14 | 4,170 | 0.015 | 975.0 | ETA398M025AN1(1) |
| 25 | 32 | 4,700 | 16 x 40 | 14 | 4,080 | 0.013 | 1175.0 | ETA478M025AM4(1) |
| 25 | 32 | 4,700 | 18 x 36 | 14 | 4,220 | 0.014 | 1175.0 | ETA478M025AN2(1) |
| 25 | 32 | 5,600 | 18 x 40 | 14 | 4,280 | 0.012 | 1400.0 | ETA568M025AN3(1) |
| 35 | 44 | 33 | 5 x 11 | 12 | 210 | 0.58 | 11.6 | ETA336M035AC3(1) |
| 35 | 44 | 56 | 6.3 x 11 | 12 | 340 | 0.22 | 19.6 | ETA566M035AE3(1) |
| 35 | 44 | 150 | 8 x 11 | 12 | 640 | 0.13 | 52.5 | ETA157M035AG3(1) |
| 35 | 44 | 220 | 8 x 15 | 12 | 840 | 0.087 | 77.0 | ETA227M035AG4(1) |
| 35 | 44 | 220 | 10 x 12.5 | 12 | 865 | 0.080 | 77.0 | ETA227M035AH9(1) |
| 35 | 44 | 270 | 8 x 20 | 12 | 1,050 | 0.069 | 94.5 | ETA277M035AG6(1) |
| 35 | 44 | 330 | 10 x 15 | 12 | 1,210 | 0.060 | 115.5 | ETA337M035AH2(1) |
| 35 | 44 | 470 | 10 x 20 | 12 | 1,400 | 0.046 | 164.5 | ETA477M035AH4(1) |
| 35 | 44 | 470 | 13 x 16 | 12 | 1,450 | 0.049 | 164.5 | ETA477M035AL2(1) |
| 35 | 44 | 560 | 10 x 25 | 12 | 1,650 | 0.042 | 196.0 | ETA567M035AH5(1) |
| 35 | 44 | 680 | 10 x 30 | 12 | 1,910 | 0.031 | 238.0 | ETA687M035AH6(1) |
| 35 | 44 | 680 | 13 x 20 | 12 | 1,900 | 0.035 | 238.0 | ETA687M035AL3(1) |
| 35 | 44 | 1,000 | 13 x 25 | 12 | 2,230 | 0.027 | 350.0 | ETA108M035AL4(1) |
| 35 | 44 | 1,200 | 13 x 30 | 12 | 2,650 | 0.024 | 420.0 | ETA128M035AL8(1) |
| 35 | 44 | 1,200 | 16 x 20 | 12 | 2,530 | 0.027 | 420.0 | ETA128M035AM5(1) |
| 35 | 44 | 1,500 | 13 x 35 | 12 | 2,880 | 0.020 | 525.0 | ETA158M035AL6(1) |
| 35 | 44 | 1,800 | 13 x 40 | 12 | 3,350 | 0.017 | 630.0 | ETA188M035AL7(1) |
| 35 | 44 | 1,800 | 16 x 25 | 12 | 2,930 | 0.021 | 630.0 | ETA188M035AM7(1) |
| VDC | VDC Surge | Rated Capacitance | Case Size | DF | RC | Z | LC | Part Number |

(1) Insert packaging code. See Ordering Options Table for available options.

* When capacitance exceeds 1,000 μF, the DF value (%) is increased by 2% for every additional 1,000 μF.

Table 1 – Ratings & Part Number Reference cont.

| VDC | VDC Surge Voltage | Rated Capacitance 120 Hz 20°C (μF) | Case Size D x L (mm) | DF 120 Hz 20°C (tan δ %)* | RC 100 kHz 105°C (mA) | Z 100 kHz 20°C (Ω) | LC 20°C 2 Minutes (μA) | Part Number |
|-----|-------------------|--|-------------------------|---------------------------------|-----------------------------|--------------------------|------------------------------|------------------|
| 35 | 44 | 1,800 | 18 x 20 | 12 | 2,860 | 0.026 | 630.0 | ETA188M035AN4(1) |
| 35 | 44 | 2,200 | 16 x 32 | 12 | 3,450 | 0.017 | 770.0 | ETA228M035AM2(1) |
| 35 | 44 | 2,200 | 18 x 25 | 12 | 3,140 | 0.019 | 770.0 | ETA228M035AN5(1) |
| 35 | 44 | 2,700 | 16 x 36 | 12 | 3,610 | 0.015 | 945.0 | ETA278M035AM3(1) |
| 35 | 44 | 2,700 | 18 x 32 | 12 | 4,170 | 0.015 | 945.0 | ETA278M035AN1(1) |
| 35 | 44 | 3,300 | 16 x 40 | 12 | 4,080 | 0.013 | 1155.0 | ETA338M035AM4(1) |
| 35 | 44 | 3,300 | 18 x 36 | 12 | 4,220 | 0.014 | 1155.0 | ETA338M035AN2(1) |
| 35 | 44 | 3,900 | 18 x 40 | 12 | 4,280 | 0.012 | 1365.0 | ETA398M035AN3(1) |
| VDC | VDC Surge | Rated Capacitance | Case Size | DF | RC | Z | LC | Part Number |

(1) Insert packaging code. See Ordering Options Table for available options.

* When capacitance exceeds 1,000 μF, the DF value (%) is increased by 2% for every additional 1,000 μF.