



Polymer Electrolytic Modular Capacitors

M55 Module Polymer Hermetic Seal



Why Choose KEMET

KEMET Electronics Corporation is a leading global supplier of electronic components. We offer our customers the broadest selection of capacitor technologies in the industry, along with an expanding range of electromechanical devices, electromagnetic compatibility solutions and supercapacitors. Our vision is to be the preferred supplier of electronic component solutions for customers demanding the highest standards of quality, delivery and service.

Features & Benefits

- Extremely low and stable ESR (as low as 15 mΩ)
- High frequency capacitance retention
- Low temperature capacitance stability
- High ripple current capability (17,500 mA_{rms})
- Excellent power dissipation capability
- Stackable packaging
- Mechanically robust assembly and epoxy housing
- Operates at up to 80% of rated voltage
- Customized solutions available
- RoHS compliant

Product Checklist

- What is the actual required capacitance?
- What is the operating temperature and frequency?
- What is the ripple current capability needed?
- What is the actual operating voltage?
- Are there any voltage spikes or reverse voltage expected?
- Are there any mechanical robustness concerns, such as vibration or shock?
- What are the ESR requirements?

For more information, samples and engineering kits, please visit us at www.kemet.com or call 1.877.myKEMET.

Programs Supported

For defense and aerospace applications requiring:

- High power
- Filtering
- Hold-up
- Current pulse generation
- High ripple current



Ordering Information

| M | 550 | B | 108 | M | 060 | A | A |
|-----------------|--|-----------|--|-----------------------|---|--|---|
| Capacitor Class | Series | Case Size | Capacitance Code (pF) | Capacitance Tolerance | Rated Voltage (VDC) | Product Level | Termination Finish |
| M = Module | 550 = Capacitor Series (PHS 105°C) 551 = Capacitor Series (PHS 125°C) | B | First two digits represent significant figures. Third digit specifies number of zeros. | K = ±10% M = ±20% | 006 = 6 008 = 8 010 = 10 015 = 15 025 = 25 030 = 30 040 = 40 050 = 50 060 = 60 075 = 75 100 = 100 | A = N/A B = DLA 13030 standard reliability T = DLA 13030 high reliability | A = 100% silver (Ag) T = 100% tin (Sn) plated H = Tin/lead (SnPb) solder coated (5% Pb minimum) S = Solder-coated (60% Sn, 40% Pb) G = 100% gold (Au) |

Dimensions



| Module Frame Size | Dimensions – Millimeters (Inches) | | | | | | Weight per module (g) |
|-------------------|-----------------------------------|---------------|---------------|------------|--------------|------------------|-----------------------|
| | H | T | W | LL | S | F _{ref} | |
| 1 | ±0.38 (0.015) | ±0.20 (0.008) | ±0.38 (0.015) | 5.6 (0.22) | 12.71 (0.50) | 0.81 | 80 |



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Frequently Selected Part Numbers

| Rated Voltage (V) at 85°C | Rated Capacitance (μF) | KEMET Module Part Number | DC Leakage μA at 25°C Max/5 min | DF% at 25°C 120 Hz Maximum | Maximum ESR mΩ at 25°C 100 kHz | Ripple Current mA _{rms} at 85°C/40 kHz | Maximum Operating Temperature (°C) |
|---------------------------|------------------------|--------------------------|---------------------------------|----------------------------|--------------------------------|---|------------------------------------|
| 6 | 8,200 | M550B828(1)006A(3) | 369 | 5 | 15 | 17,500 | 105 |
| 6 | 8,200 | M551B828(1)006A(3) | 369 | 5 | 15 | 17,500 | 125 |
| 8 | 6,800 | M550B688(1)008A(3) | 408 | 5 | 15 | 17,500 | 105 |
| 8 | 6,800 | M551B688(1)008A(3) | 408 | 5 | 15 | 17,500 | 125 |
| 10 | 5,600 | M550B568(1)010A(3) | 420 | 5 | 15 | 17,500 | 105 |
| 10 | 5,600 | M551B568(1)010A(3) | 420 | 5 | 15 | 17,500 | 125 |
| 15 | 3,900 | M550B398(1)015A(3) | 439 | 5 | 15 | 17,500 | 105 |
| 15 | 3,900 | M551B398(1)015A(3) | 439 | 5 | 15 | 17,500 | 125 |
| 25 | 1,000 | M550B108(1)025(2)(3)* | 188 | 5 | 30 | 12,000 | 105 |
| 25 | 1,000 | M551B108(1)025A(3) | 188 | 5 | 30 | 12,000 | 125 |
| 30 | 680 | M550B687(1)030A(3) | 153 | 5 | 25 | 14,000 | 105 |
| 30 | 680 | M551B687(1)030A(3) | 153 | 5 | 25 | 14,000 | 125 |
| 40 | 1,000 | M550B108(1)040(2)(3)* | 300 | 5 | 25 | 13,500 | 105 |
| 40 | 1,000 | M551B108(1)040A(3) | 300 | 5 | 25 | 13,500 | 125 |
| 40 | 1,200 | M550B128(1)040(2)(3)* | 360 | 5 | 20 | 15,100 | 105 |
| 40 | 1,200 | M551B128(1)040A(3) | 360 | 5 | 20 | 15,100 | 125 |
| 50 | 1,000 | M551B108(1)050A(3) | 375 | 5 | 20 | 14,500 | 105 |
| 50 | 1,000 | M551B108(1)050A(3) | 375 | 5 | 20 | 14,500 | 125 |
| 50 | 1,200 | M550B128(1)050(2)(3)* | 450 | 5 | 15 | 17,500 | 105 |
| 50 | 1,200 | M551B128(1)050A(3) | 450 | 5 | 15 | 17,500 | 125 |
| 60 | 1,000 | M550B108(1)060(2)(3)* | 450 | 5 | 25 | 16,600 | 105 |
| 60 | 1,000 | M551B108(1)060A(3) | 450 | 5 | 25 | 16,600 | 125 |
| 75 | 750 | M550B757(1)075(2)(3)* | 422 | 5 | 20 | 15,800 | 105 |
| 100 | 250 | M550B257(1)100(2)(3)* | 188 | 5 | 30 | 12,750 | 105 |

*Screened discrete component DLA qualified

(1) To complete KEMET part number, insert M for ±20% or K for ±10%.

(2) To complete KEMET part number, insert B = standard reliability or T = high reliability.

(3) To complete KEMET part number, insert T = 100% matte tin (Sn) plated, H = Standard solder coated (SnPb 5% Pb minimum), S = 60% tin (Sn) 40% lead (Pb), G = 100% gold (Au), A = 100% silver (Ag).

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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