



Polymer Electrolytic Modular Capacitors

M55 Module Polymer Hermetic Seal

Electronic Components
KEMET
CHARGED®

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:

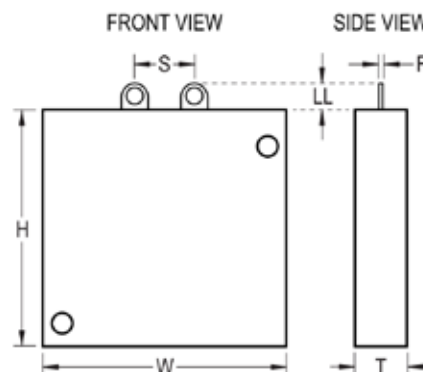
- High power
- Filtering
- Hold-up
- Current pulse generation
- High ripple current



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



Dimensions – Millimeters (Inches)							Weight
Module Frame Size	H ±0.38 (0.015)	T ±0.20 (0.008)	W ±0.38 (0.015)	LL	S	F _{ref}	per module (g)
1	50.6 (1.99)	11.1 (0.44)	52.1 (2.05)	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).

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

KEMET:

M551B108K025AG	M550B757K075AH	M550B828K006AS	M550B128M050AA	M551B108M060AA
M550B108M060AG	M551B108M050AA	M551B108M050AG	M551B828K006AG	M550B108K050AS
M550B108M050AG	M550B757K075AG	M551B688K008AS	M551B128K050AS	M551B108M025AG
M550B757K075AA	M550B128M040AG	M551B128M040AS	M551B108M060AT	M551B568M010AG
M551B687M030AA	M550B828M006AS	M550B108K050AA	M550B687K030AS	M551B568M010AH
M551B108K060AT	M550B688K008AH	M551B828M006AS	M550B108K025AT	M550B398M015AG
M551B687K030AG	M551B687K030AS	M550B687K030AH	M550B108K025AH	M551B128M040AG
M551B108M040AS	M550B128K050AH	M551B398K015AA	M551B398K015AS	M550B128M040AA
M550B687K030AA	M550B128M040AH	M551B128K050AH	M550B398K015AH	M550B257M100AS
M550B257M100AG	M551B128K040AS	M550B108M025AH	M551B687K030AH	M550B108M040AS
M550B568K010AS	M550B398M015AS	M550B108K060AH	M550B757M075AT	M551B398K015AT
M550B688M008AH	M550B108M025AS	M551B687M030AH	M550B687M030AA	M551B828K006AT
M551B687K030AT	M550B128K050AG	M551B108K050AT	M551B108K050AG	M550B398K015AS
M550B568K010AT	M550B828M006AG	M551B108M025AS	M550B687K030AT	M551B128K040AG
M550B128K050AS	M550B128K050AT	M551B128K050AG	M550B257M100AA	M551B128M040AA
M550B108M040AG	M551B128K040AH	M550B687M030AT	M551B108M050AS	M550B687M030AS
M550B108K060AS	M551B828K006AH	M551B688K008AA	M550B828M006AA	M550B687M030AH
M550B257M100AT	M550B108M060AH	M550B108K025AG	M550B128M050AG	M550B108K060AA
M550B828M006AH	M551B568K010AG	M550B568K010AG	M551B568M010AA	M550B257K100AS
M550B128K050AA	M550B108K050AG	M550B688M008AG	M551B688K008AG	M551B398K015AH