SA0510

Why Buy From KEMET?

KEMET is your seamless, integrated, single source for capacitance solutions worldwide. With 95% of possible dielectric solutions, global availability, on-time delivery, plus full custom design services. One world. One source. One KEMET.

Features & Benefits

• Wide capacitance & voltage range
• Direct mount version with six tab styles to fit most IGBTs
• 4-pin PCB mount version available
• Stable temperature characteristics
• Pb-free/RoHS-compliant
• Made with low-loss polypropylene film
• Safe failure mode

Customer Questions

• Does the IGBT module have screw or pin connections?
• What is the current rating of the IGBT?
• Will the snubber capacitor be used by itself or with a diode in a network?
• What rated voltage is required?

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

Costad Polecat

Programs Supported

• Snubber
• Switching
• Snubber-IGBT
• Switching-IGBT

Snubber capacitor by itself

Snubber capacitor in a network

This is a starting point. The engineer will pick the capacitor voltage and final cap value.

KEMET Products & Competition

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KEMET Products & Competition

Series | Capacitor Type | Rated Voltage | Cap Range | Characteristics | Competition
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C4AS | Radial Leads | 850 VDC/500 VAC | 0.15 – 5.0 µF | • Snubber applications | WIMA, TDK-EPC, Vishay, AVX
1000 VDC/600 VAC | 0.15 – 4.7 µF | • Climatic category (IEC 60068-1) 40/85/56
1200 VDC/630 VAC | 0.1 – 3.5 µF | • Pulse rise time (dv/dt) 469 to 3360 V/µs
2000 VDC/700 VAC | 0.033 – 1.5 µF | • Pitch (p) p = 27.5, 37.5, 52.5 mm
3000 VDC/750 VAC | 0.022 – 0.82 µF | • Terminals tinned copper 2 or 4 wires

C4AT | Radial Leads | 250 VDC/160 VAC | 1.0 – 60 µF | • Switching applications | WIMA, TDK-EPC, Vishay, AVX
400 VDC/250 VAC | 1.0 – 40 µF | • Climatic category (IEC 60068-1) 40/85/56
450 VDC/275 VAC | 1.0 – 35 µF | • Pulse rise time (dv/dt) 15 to 148 V/µs
600 VDC/350 VAC | 0.68 – 20 µF | • Pitch (p) p = 27.5, 37.5, 52.5 mm
700 VDC/400 VAC | 0.47 – 15 µF | • Terminals tinned copper 2 or 4 wires
850 VDC/450 VAC | 0.22 – 10 µF | • Terminals tinned brass lugs

C4BS | Direct Mount | 850 VDC/550 VAC | 0.47 – 5.0 µF | • Snubber-IGBT applications | WIMA, TDK-EPC, Vishay, AVX
1000 VDC/600 VAC | 0.47 – 4.0 µF | • Climatic category (IEC 60068-1) 40/85/56
1200 VDC/630 VAC | 0.33 – 3.3 µF | • Pulse rise time (dv/dt) 469 to 3361 V/µs
2000 VDC/700 VAC | 0.10 – 1.5 µF | • Box Length (L) L = 32 to 57.5 mm
3000 VDC/750 VAC | 0.047 – 0.82 µF | • Terminals tinned brass lugs

C4BT | Direct Mount | 250 VDC/160 VAC | 4.7 – 60 µF | • Switching-IGBT applications | WIMA, TDK-EPC, Vishay, AVX
400 VDC/250 VAC | 3.3 – 40 µF | • Climatic category (IEC 60068-1) 40/85/56
600 VDC/330 VAC | 2.5 – 20 µF | • Pulse rise time (dv/dt) 27 to 148 V/µs
700 VDC/400 VAC | 1.5 – 15 µF | • Box Length (L) L = 32 to 57.5 mm
850 VDC/450 VAC | 1.0 – 10 µF | • Terminals tinned brass lugs

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