

Safety Standard Recognized, 900 Series, Radial Disc, Encapsulated, X1 400 VAC / Y1 250 VAC (Industrial Grade)

Overview

KEMET's 900 Series Encapsulated Radial Through-Hole Ceramic Disc Capacitors are specifically designed for interference-suppression AC line filtering applications. Having internationally recognized safety certifications, these capacitors are well suited for applications that require keeping potentially disruptive or damaging line transients and EMI out of susceptible equipment. They are also an ideal solution when there is a need to suppress line disturbances at the source.

Safety Certified Capacitors are classified as either X and/or Y capacitors. Class X capacitors are primarily used in line-to-line (across-the-line) applications. In this application, there is no danger of electric shock to humans should the capacitor fail but it could result in a risk of fire. The Class Y capacitor is primarily used in line-to-ground (line by pass) applications. In this

application, failure of the capacitor could lead to danger of electric shock.

With a working voltage of 400 VAC in line-to-line (Class X) and 250 VAC in line-to-ground (Class Y) applications, these safety capacitors meet the impulse test criteria outlined in IEC Standard 60384. Meeting subclass X1 and Y1 requirements, these devices are certified to withstand impulses up to 4 KV (X1) and 8 KV (Y1) respectively. These encapsulated devices also meet the flame test requirements outlined in UL Standard 94 V-0.



Ordering Information

C9	8	1	U	103	M	Y	V	D	A	A	7317
Ceramic Series	Body Diameter	Lead Spacing ¹	Specification	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage	Dielectric	Design	Lead Style	Failure Rate	Packaging/Grade (C-Spec) ¹
C9 = C900	0 = 7.0 mm 1 = 8.0 mm 2 = 9.0 mm 3 = 10.0 mm 4 = 11.0 mm 5 = 12.0 mm 7 = 14.0 mm	1 = 10.0 mm	U = Safety Standard	2 significant digits + number of zeros. Use 9 for 1.0 – 9.9 pF Use 8 for 0.5 – 0.99 pF e.g., 2.2 pF = 229 e.g., 0.5 pF = 508	C = ±0.25 pF D = ±0.5 pF J = ±5% K = ±10% M = ±10%	U = X1 400 VAC/ Y1 250 VAC	N = NP0 (0 ±60 ppm/°C) S = SL (-1,000~+350 ppm/°C) Y = Y5P (±10%) W = Y5U (+20% to -55%) V = Y5V (+30% to -80%)	D = Single Layer Disc	A = Straight B = Vertical Kink C = Outside Kink	A = N/A	7317 = Ammo Pack WL35 = Bulk / 3.5 mm lead length WL40 = Bulk / 4.0 mm lead length WL45 = Bulk / 4.5 mm lead length WL20 = Bulk / 20 mm lead length

¹ When choosing the Ammo Pack option, please note that the carrier tape pitch dimension for these components is 25.4 mm.

Benefits

- Safety Standard Recognized
- Radial through-hole form factor
- Encapsulated
- 10 mm lead spacing
- Lead (Pb)-Free and RoHS Compliant
- Halogen Free
- Capacitance offerings ranging from 2.0 pF up to 4,700 pF
- Available capacitance tolerances of $\pm 0.25\text{pF}$, $\pm 0.5\text{pF}$, $\pm 5\%$, $\pm 10\%$, and $\pm 20\%$
- High reliability
- Kinked or straight lead configurations
- Non-polar device, minimizing installation concerns
- 100% pure matte tin-plated lead finish allowing for excellent solderability
- Encapsulation meets flammability standard UL 94 V-0

Applications

Typical applications include line-to-line (Class X) filtering, line-to-ground (Class Y) filtering, antenna coupling, primary and secondary coupling (switching power supplies), and line disturbances suppression (motors and motor controls, relays, switching power supplies, and inverters).

Preliminary



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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