

Part Number: 2743009112  
 Frequency Range: Broadband Frequencies 25-300 MHz (43 material)  
 Description: 43 BEAD ON LEAD  
 Application: Suppression Components  
 Where Used: Board Component  
 Part Type: Beads-on-Leads  
 Preferred Part: ✓

## Mechanical Specifications

Weight: .700 (g)

## Part Type Information

Ferrite suppression beads are supplied assembled on tinned copper wire for automated circuit board assembly.

-Parts with a '2' as the last digit of the part number are supplied taped and reeled per IEC 60286-1 and EIA RS-296-F standards. Taped and reeled parts are supplied 4500 pieces on a 14" reel. Taping details: Component pitch 5 mm. Inside tape spacing 52.5 mm. Tape width 6 mm.

-Beads-on-leads can be supplied bulk packed. The last digit of bulk packed parts is a '1'.

-Wires are oxygen free high conductivity copper with a lead-free tin coating. The resistance of the wire is 3.5 mOhm for the 22 AWG and 2.2 mOhm for the 20 AWG wire.

-Beads-on-leads are controlled for impedances only. The impedances listed are typical values. Minimum impedance values are specified for the + marked frequencies. The minimum guaranteed impedance is the listed impedance less 20%. The impedances of the 73 & 43 beads-on-leads are measured on the 4193A Vector Impedance Analyzer. The 61 beads-on-leads are tested for impedance on the 4191A RF Impedance Analyzer.

-Preferred beads-on-leads are the suggested choice for new designs. Samples are readily available and orders have typically shorter lead times than other beads-on-leads. For any bead-on lead requirement not listed here, feel free to contact our customer service group for availability and pricing.

-Our 'Bead-on-Lead Suppression Kit' (part number 0199000028) is available for prototype evaluation.

-Explanation of Part Numbers: Digits 1&2 = product class, 3&4 = material grade and last digit 1 = bulk packed, 2 = taped and reeled.






**Formic Material Constants**

Specific Heat	0.26 cal/g°C
Thermal Conductivity	0.007 cal/cm²°C
Coefficient of Linear Expansion	6.5 x 10 <sup>-5</sup> /°C
Tensile Strength	4.5 kg/cm²
Compression Strength	4.5 kg/cm²
Impact Strength	10.0 ft-lb/inch
Modulus of Elasticity	2.8 x 10 <sup>8</sup> dyn/cm²
Dielectric Strength	1.5 x 10 <sup>6</sup> volt/cm

The above constants are typical for Fair-File F100 and F100 Series.

**Fair-Rite Products Corp.**  
 Your Signal Solution™  
 10000 Fairview Court, Fairview, NJ 07410  
 Tel: 201-261-1500 Fax: 201-261-1501  
 www.fair-rite.com

The 1000 is a high quality ferrite bead inductor of extremely low inductance and high impedance. It is designed for use in a wide range of applications, including signal conditioning, EMI/RFI suppression, and power line filtering. The 1000 is available in a variety of values and is suitable for use in a wide range of environments.

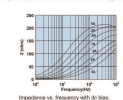
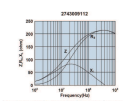
Inductance (nH)	Impedance (dB)	Part Number
10	20	1000-10-20
10	30	1000-10-30
10	40	1000-10-40
10	50	1000-10-50
10	60	1000-10-60
10	70	1000-10-70
10	80	1000-10-80
10	90	1000-10-90
10	100	1000-10-100

**Typical Impedance vs. Frequency**  
 The graph shows the typical impedance of the 1000 ferrite bead inductor as a function of frequency. The impedance increases with frequency, reaching a maximum of approximately 100 dB at 100 MHz. The inductance is constant at 10 nH across the entire frequency range.

**Typical Impedance vs. Frequency**  
 The graph shows the typical impedance of the 1000 ferrite bead inductor as a function of frequency. The impedance increases with frequency, reaching a maximum of approximately 100 dB at 100 MHz. The inductance is constant at 10 nH across the entire frequency range.

**Typical Impedance vs. Frequency**  
 The graph shows the typical impedance of the 1000 ferrite bead inductor as a function of frequency. The impedance increases with frequency, reaching a maximum of approximately 100 dB at 100 MHz. The inductance is constant at 10 nH across the entire frequency range.

**Typical Impedance vs. Frequency**  
 The graph shows the typical impedance of the 1000 ferrite bead inductor as a function of frequency. The impedance increases with frequency, reaching a maximum of approximately 100 dB at 100 MHz. The inductance is constant at 10 nH across the entire frequency range.





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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