



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.

Form Material Constants

Specific Heat	0.25 cal/g°C
Thermal Conductivity	0.025 W/mK @ 25°C
Coefficient of Linear Expansion	11.5 x 10 ⁻⁶ /°C
Tensile Strength	4.5 MPa
Compression Strength	45 MPa
Young's Modulus	1.5 x 10 ⁹ N/m ²
Modulus of Elasticity	210 GPa
Shrinkage	0.1%

The above material properties are typical for Fair-File FPC and FPC Series.

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The RoHS & REACH logos indicate that this product is RoHS compliant and REACH compliant. For more information, please visit our website at www.fair-rite.com.

Part Number	Material	Dimensions (mm)	Inductance (nH)	Q Factor	Self-Resonant Frequency (MHz)
1000	1000	1.0 x 1.0 x 0.5	1000	100	1000
1001	1001	1.0 x 1.0 x 0.5	1001	100	1001
1002	1002	1.0 x 1.0 x 0.5	1002	100	1002
1003	1003	1.0 x 1.0 x 0.5	1003	100	1003
1004	1004	1.0 x 1.0 x 0.5	1004	100	1004
1005	1005	1.0 x 1.0 x 0.5	1005	100	1005
1006	1006	1.0 x 1.0 x 0.5	1006	100	1006
1007	1007	1.0 x 1.0 x 0.5	1007	100	1007
1008	1008	1.0 x 1.0 x 0.5	1008	100	1008
1009	1009	1.0 x 1.0 x 0.5	1009	100	1009
1010	1010	1.0 x 1.0 x 0.5	1010	100	1010

Inductance vs. Frequency
 Graph showing Inductance (nH) vs. Frequency (MHz) for Part 1000. The inductance remains constant at 1000 nH until approximately 100 MHz, then decreases.

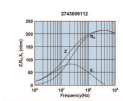
Q Factor vs. Frequency
 Graph showing Q Factor vs. Frequency (MHz) for Part 1000. The Q factor peaks at approximately 100 MHz and then decreases.

Self-Resonant Frequency vs. Frequency
 Graph showing Self-Resonant Frequency (MHz) vs. Frequency (MHz) for Part 1000. The self-resonant frequency is constant at 1000 MHz until approximately 100 MHz, then decreases.

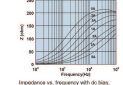
Inductance vs. Frequency
 Graph showing Inductance (nH) vs. Frequency (MHz) for Part 1001. The inductance remains constant at 1001 nH until approximately 100 MHz, then decreases.

Q Factor vs. Frequency
 Graph showing Q Factor vs. Frequency (MHz) for Part 1001. The Q factor peaks at approximately 100 MHz and then decreases.

Self-Resonant Frequency vs. Frequency
 Graph showing Self-Resonant Frequency (MHz) vs. Frequency (MHz) for Part 1001. The self-resonant frequency is constant at 1001 MHz until approximately 100 MHz, then decreases.



Impedance, reactance, and resistance vs. frequency



Impedance vs. frequency with 50 Ohm

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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