



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.

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Mechanical Specifications

Part No.	Part Name	Material	Finish	Weight
100-0000
100-0001
100-0002
100-0003
100-0004
100-0005
100-0006
100-0007
100-0008
100-0009
100-0010
100-0011
100-0012
100-0013
100-0014
100-0015
100-0016
100-0017
100-0018
100-0019
100-0020

Lead Times

Part No.	Lead Time (Weeks)
100-0000	...
100-0001	...
100-0002	...
100-0003	...
100-0004	...
100-0005	...
100-0006	...
100-0007	...
100-0008	...
100-0009	...
100-0010	...
100-0011	...
100-0012	...
100-0013	...
100-0014	...
100-0015	...
100-0016	...
100-0017	...
100-0018	...
100-0019	...
100-0020	...

Material Specifications


Part No.	Material	Finish
100-0000
100-0001
100-0002
100-0003
100-0004
100-0005
100-0006
100-0007
100-0008
100-0009
100-0010
100-0011
100-0012
100-0013
100-0014
100-0015
100-0016
100-0017
100-0018
100-0019
100-0020

Form Material Constants

Specific Heat	0.25 cal/g°C
Thermal Conductivity	0.0019 cal/cm·sec·°C
Coefficient of Linear Expansion	6.5 x 10 ⁻⁶ /°C
Tensile Strength	4.5 kg/cm ²
Compression Strength	4.5 kg/cm ²
Energy Absorption	0.0015 kg/cm ²
Modulus of Elasticity	2.0 x 10 ¹⁰ dyn/cm ²
Modulus of Rupture	2.0 x 10 ¹⁰ dyn/cm ²

The above values are typical for Fair-File 1000 and 1000 Series.

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The 2611 is a high quality ferrite bead inductor of cylindrical shape with a diameter of 1.5mm and a length of 3.5mm. It is designed for use in a wide range of applications, including signal conditioning, EMI/RFI suppression, and power line filtering. The 2611 is available in a variety of values and is RoHS compliant.

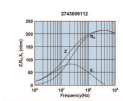
Value	Part Number	Inductance (µH)	DC Resistance (Ω)	Q Factor	Self-Resonance Frequency (MHz)
10	2611-10	10	0.1	100	100
20	2611-20	20	0.1	100	100
30	2611-30	30	0.1	100	100
50	2611-50	50	0.1	100	100
100	2611-100	100	0.1	100	100
200	2611-200	200	0.1	100	100
300	2611-300	300	0.1	100	100
500	2611-500	500	0.1	100	100
1000	2611-1000	1000	0.1	100	100

Inductance vs. Frequency
 Graph showing Inductance (µH) on the y-axis (0 to 1000) versus Frequency (MHz) on the x-axis (0 to 100). The curve shows a decreasing trend in inductance as frequency increases.

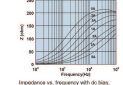
DC Resistance vs. Frequency
 Graph showing DC Resistance (Ω) on the y-axis (0 to 0.1) versus Frequency (MHz) on the x-axis (0 to 100). The resistance remains relatively constant at approximately 0.1 Ω across the frequency range.

Q Factor vs. Frequency
 Graph showing Q Factor on the y-axis (0 to 100) versus Frequency (MHz) on the x-axis (0 to 100). The Q factor peaks at approximately 100 at a frequency of about 10 MHz and then decreases.

Self-Resonance Frequency vs. Inductance
 Graph showing Self-Resonance Frequency (MHz) on the y-axis (0 to 100) versus Inductance (µH) on the x-axis (0 to 1000). The self-resonance frequency decreases as inductance increases.



Impedance, reactance, and resistance vs. frequency



Impedance vs. frequency with dB gain

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