



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.	Rev.	Dim.	Notes
70544	001		

**Lead Finishes**

Lead Finish	Notes
ENIG (Ni/Au)	
Immersion Silver	
Hot Air Solder Dip	
Lead Free	

**RoHS Compliance**

RoHS	Notes
RoHS Compliant	

**REVISIONS**

Rev.	Description	Date
001	Initial Release	08/10/2010

**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 <sup>-6</sup> /°C
Tensile Strength	4.5 kg/cm <sup>2</sup>
Compression Strength	4.5 kg/cm <sup>2</sup>
Energy Absorbed	15.0 J/g
Modulus (Young's)	2.0 x 10 <sup>9</sup> dyn/cm <sup>2</sup>
Shrinkage (Moisture)	0.1%

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

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**Part Number: 6000-0000**

Frequency (MHz)	Inductance (nH)	Quality Factor (Q)
100	100	100
200	100	100
300	100	100
400	100	100
500	100	100
600	100	100
700	100	100
800	100	100
900	100	100
1000	100	100

**Physical Properties & Dimensions**

**Electrical Properties & Performance**

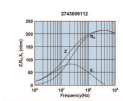
**Temperature Characteristics & Stability**

**Frequency Response & Bandwidth**

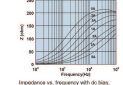
**Impedance Characteristics & Matching**

**Power Handling & Thermal Stability**

**Environmental Resistance & Reliability**



Impedance, reactance, and resistance vs. frequency



Impedance vs. frequency with dB loss

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