

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.

**Fair-Play Products Corp.**  
 Your Signal Solution™  
 10000 15th Street, Suite 100, San Diego, CA 92128  
 (619) 444-1000

**Mechanical Specifications**

Part No.	Part Name	Material	Finish	Quantity
10000	15th Street	Aluminum	Anodized	1000
10001	Suite 100	Aluminum	Anodized	1000
10002	San Diego	Aluminum	Anodized	1000
10003	CA 92128	Aluminum	Anodized	1000
10004	(619) 444-1000	Aluminum	Anodized	1000

**Lead Times**

Part No.	Lead Time (Weeks)
10000	12
10001	12
10002	12
10003	12
10004	12

**Notes:**

1. All dimensions are in inches unless otherwise specified.
2. All tolerances are ±0.005 inches unless otherwise specified.
3. All surfaces are to be finished to a mirror finish.
4. All surfaces are to be anodized to a minimum thickness of 0.0005 inches.
5. All surfaces are to be passivated to a minimum thickness of 0.0005 inches.
6. All surfaces are to be protected with a clear coat.
7. All surfaces are to be protected with a clear coat.
8. All surfaces are to be protected with a clear coat.
9. All surfaces are to be protected with a clear coat.
10. All surfaces are to be protected with a clear coat.

**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	45 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>
Dielectric Strength	1.5 x 10 <sup>6</sup> V/cm


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

**Fair-Rite Products Corp.**  
 Your Signal Solution™  
 10000 Fair-Rite Drive, Fair-Rite, NJ 07410  
 Phone: 908-833-1000 Fax: 908-833-1001  
 www.fair-rite.com


**Part Number: 6000-0000**

Part Number	Material	Dimensions (mm)	Inductance (nH)	Q Factor	Frequency (MHz)
6000-0000	6000	1.0 x 1.0 x 0.5	100	100	100

**Physical Properties & Dimensions**




Inductance (nH) vs Frequency (MHz)




Q Factor vs Frequency (MHz)

**Electrical Properties & Performance**



Inductance (nH) vs Frequency (MHz)



Q Factor vs Frequency (MHz)