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Ferrite Components for the Electronics Industry
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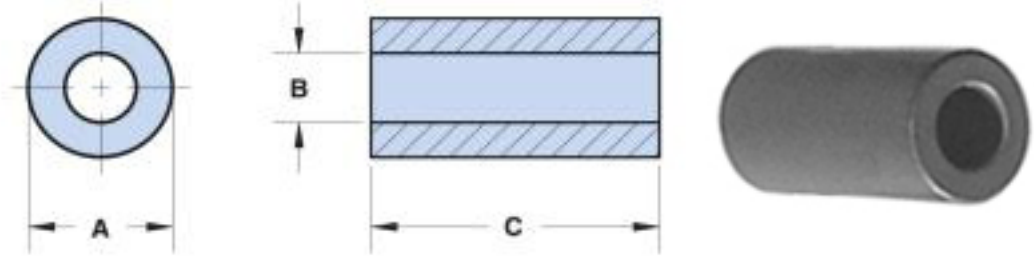
Phone: (888) 324-7748 www.fair-rite.com

Fair-Rite Product's Catalog
Part Data Sheet, 2673901301
Printed: 2010-11-09

Application:	Suppression Components
Where Used:	Board Component
Part Type:	EMI Suppression Beads



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Part Data Sheet, 2673901301
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Frequency Range: Lower Frequencies < 50 MHz (73 material)

Application: Suppression Components

Where Used: Board Component

Part Type: EMI Suppression Beads

Part Type Information

Fair-Rite offers a broad selection of ferrite EMI suppression beads with guaranteed minimum impedance specifications.

-Beads with a '1' as the last digit of the part number are not burnished. Parts that are burnished to break the sharp edges have a '2' as the last digit.

-Upon request beads can be supplied with a Parylene coating. The last digit of the Parylene coated part is a '4'. The minimum coating thickness beads is 0.005 mm (.0002").

-The column 'H (Oe)' gives for each bead the calculated dc bias field in oersted for 1 turn and 1 ampere direct current. The actual dc H field in the application is this value of 'H' times the actual NI (ampere-turn) product. For the effect of the dc bias on the impedance of the bead material, see figures 18-23 in the application note www.fair-rite.com/newfair/pdf/CUP%20Paper.pdf document for 'How to choose Ferrite Components for EMI Suppression.

-Suppression beads 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 typical impedance less 20%.

-Single turn impedance tests for 73 and 43 material beads are performed on the 4193A Vector Impedance Analyzer. The 61 material beads are tested on the 4191A RF Impedance Analyzer. Beads are tested with the shortest practical wire length.

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

-The 'C' dimension, the bead length, can be modified to suit specific applications.

-Our 'Shield Bead Kit' (part number 0199000019) contains a selection of these beads.

-Explanation of Part Numbers: Digits 1&2 = product class, 3&4 = material grade and last digit 1= not burnished, 2 = burnished and 4 = Parylene coated.

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Fair-Rite Product's Catalog
Part Data Sheet, 2673901301
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Part Number: 2673901301

Description: 73 SHIELD BEAD

Preferred Part: ✓

Weight: .010 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	0.95	-0.05	0.036	-
B	0.45	+0.10	0.020	-
C	3.80	±0.20	0.150	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	5.3
5 MHz	13
10 MHz+	16
25 MHz+	24

Electrical Properties	
H(Oe)	6.00

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend
+ Test frequency
Preferred parts, the suggested choice for new designs,have shorter lead times and are more readily available.
The column H(Oe) gives for each bead the calculated dc bias field in oersted for 1 turn and 1 ampere direct current. The actual dc H field in the application is this value of H times the actual NI (ampere-turn) product. For the effect of the dc bias on the impedance of the bead material, see figures 18-23 in the application note How to choose Ferrite Components for EMI Suppression.
A ½ turn is defined as a single pass through a hole.
Σl/A - Core Constant
l_e: Effective Path Length
A_e: Effective Cross-Sectional Area
V_e: Effective Core Volume
A_L - Inductance Factor $\left(\frac{L}{N^2}\right)$
NI - Value of dc Ampere-turns
N/AWG - Number of Turns/Wire Size for Test Coil

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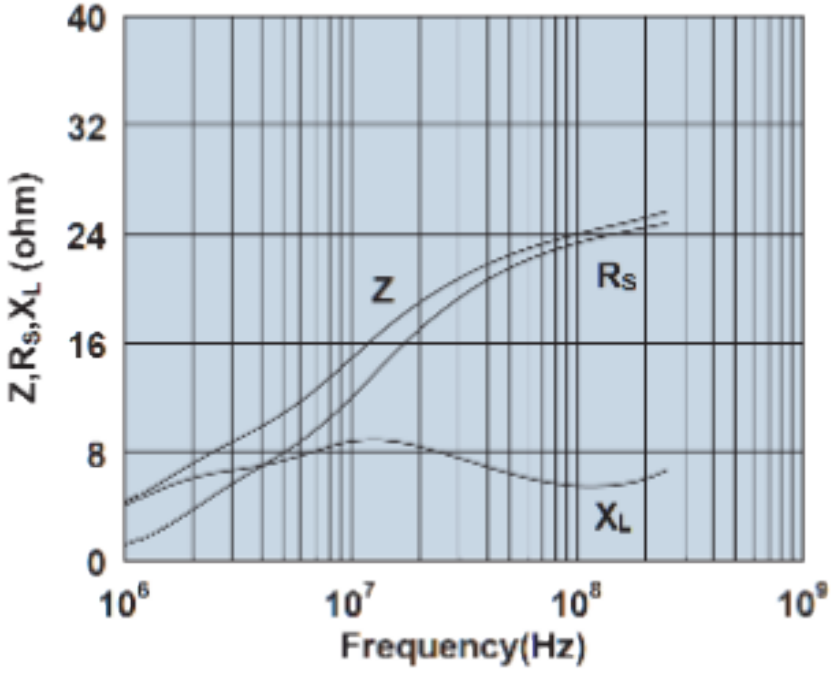

Impedance, reactance, and resistance vs. frequency.

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Part Number: 2673004601

Description: 73 SHIELD BEAD

Weight: .010 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	1.10	-0.10	0.041	-
B	0.65	+0.10	0.028	-
C	4.10	-0.30	0.156	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	3.3
5 MHz	8.2
10 MHz+	12.5
25 MHz+	19

Electrical Properties	
H(Oe)	4.70

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend

+ Test frequency

Preferred parts, the suggested choice for new designs,have shorter lead times and are more readily available.

The column H(Oe) gives for each bead the calculated dc bias field in oersted for 1 turn and 1 ampere direct current. The actual dc H field in the application is this value of H times the actual NI (ampere-turn) product. For the effect of the dc bias on the impedance of the bead material, see figures 18-23 in the application note How to choose Ferrite Components for EMI Suppression.

A ½ turn is defined as a single pass through a hole.

Σl/A - Core Constant

l_e: Effective Path Length

A_e: Effective Cross-Sectional Area

V_e: Effective Core Volume

A_L - Inductance Factor $\left(\frac{L}{N^2}\right)$

NI - Value of dc Ampere-turns

N/AWG - Number of Turns/Wire Size for Test Coil

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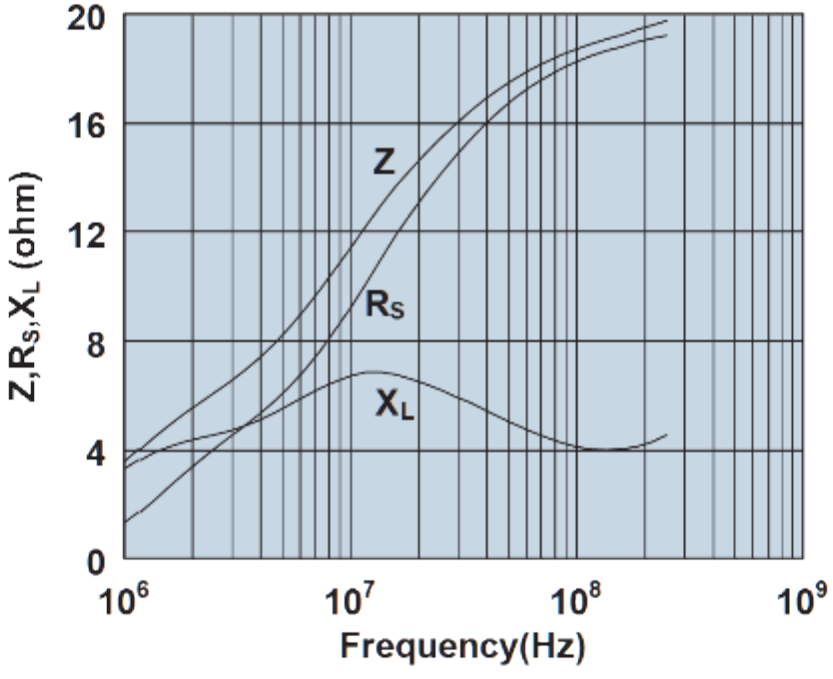

Impedance, reactance, and resistance vs. frequency.

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Fair-Rite Product's Catalog
Part Data Sheet, 2673004701
Printed: 2010-11-09

Part Number: 2673004701

Description: 73 SHIELD BEAD

Weight: .010 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	1.45	-0.15	0.054	-
B	0.70	+0.10	0.029	-
C	2.30	±0.15	0.090	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	3.1
5 MHz	7.6
10 MHz+	12.5
25 MHz+	17

Electrical Properties	
H(Oe)	4.00

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend

+ Test frequency

Preferred parts, the suggested choice for new designs,have shorter lead times and are more readily available.

The column H(Oe) gives for each bead the calculated dc bias field in oersted for 1 turn and 1 ampere direct current. The actual dc H field in the application is this value of H times the actual NI (ampere-turn) product. For the effect of the dc bias on the impedance of the bead material, see figures 18-23 in the application note How to choose Ferrite Components for EMI Suppression.

A ½ turn is defined as a single pass through a hole.

$\Sigma l/A$ - Core Constant

l_e: Effective Path Length

A_e: Effective Cross-Sectional Area

V_e: Effective Core Volume

A_L - Inductance Factor $\left(\frac{L}{N^2}\right)$

NI - Value of dc Ampere-turns

N/AWG - Number of Turns/Wire Size for Test Coil

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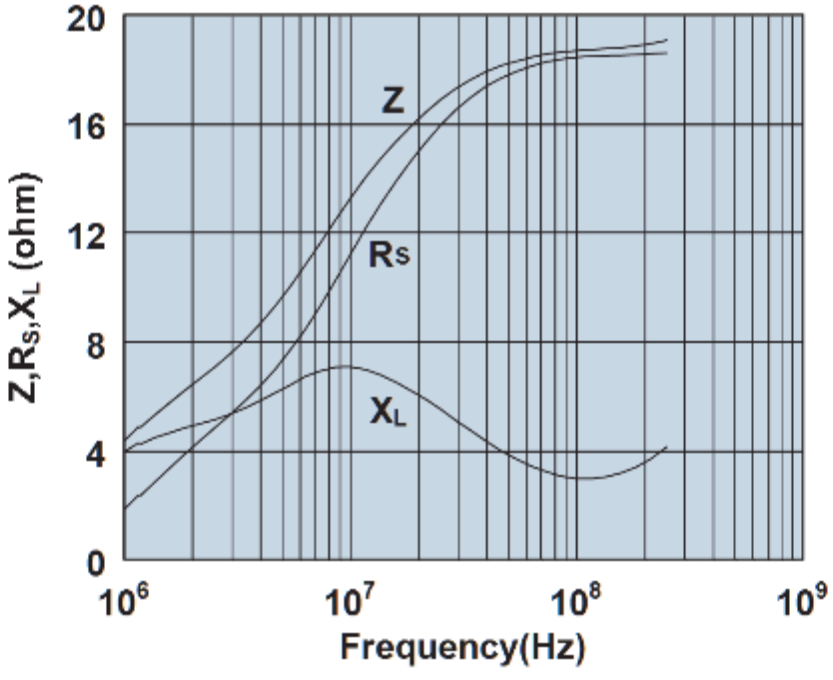

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Fair-Rite Product's Catalog
Part Data Sheet, 2673030101
Printed: 2010-11-09

Part Number: 2673030101

Description: 73 SHIELD BEAD

Preferred Part: ✓

Weight: .010 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	1.22	-0.13	0.045	-
B	0.80	+0.10	0.033	-
C	5.30	-0.45	0.200	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	3.5
5 MHz	8.6
10 MHz+	11
25 MHz+	17

Electrical Properties	
H(Oe)	4.10

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend

+ Test frequency

Preferred parts, the suggested choice for new designs,have shorter lead times and are more readily available.

The column H(Oe) gives for each bead the calculated dc bias field in oersted for 1 turn and 1 ampere direct current. The actual dc H field in the application is this value of H times the actual NI (ampere-turn) product. For the effect of the dc bias on the impedance of the bead material, see figures 18-23 in the application note How to choose Ferrite Components for EMI Suppression.

A ½ turn is defined as a single pass through a hole.

$\Sigma l/A$ - Core Constant

l_e: Effective Path Length

A_e: Effective Cross-Sectional Area

V_e: Effective Core Volume

A_L - Inductance Factor $\left(\frac{L}{N^2}\right)$

NI - Value of dc Ampere-turns

N/AWG - Number of Turns/Wire Size for Test Coil

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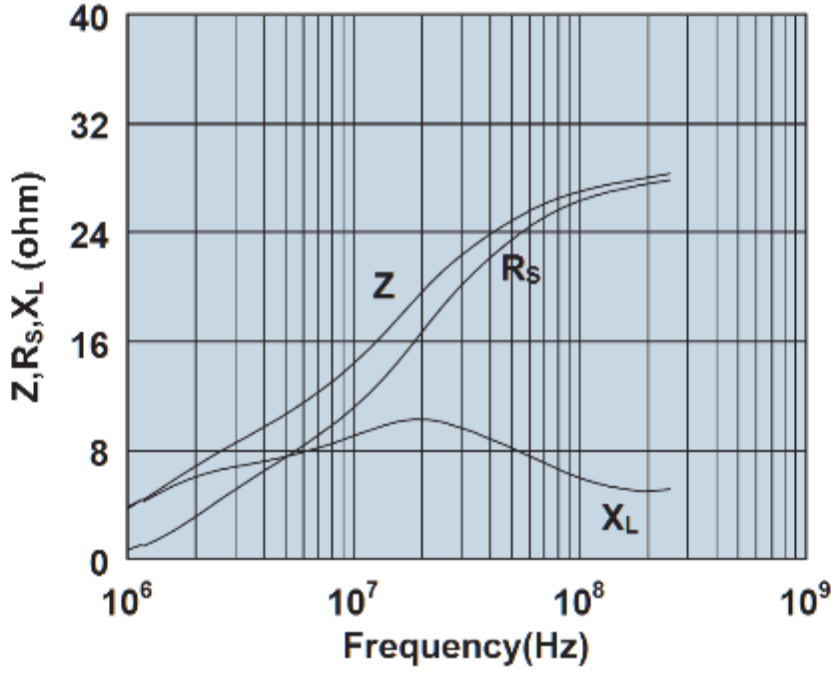

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Part Number: 2673025301

Description: 73 SHIELD BEAD

Preferred Part: ✓

Weight: .010 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	1.25	-0.10	0.047	-
B	0.80	+0.10	0.033	-
C	3.80	±0.20	0.150	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	2.9
5 MHz	7.1
10 MHz+	10
25 MHz+	15

Electrical Properties	
H(Oe)	4.00

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend

+ Test frequency

Preferred parts, the suggested choice for new designs,have shorter lead times and are more readily available.

The column H(Oe) gives for each bead the calculated dc bias field in oersted for 1 turn and 1 ampere direct current. The actual dc H field in the application is this value of H times the actual NI (ampere-turn) product. For the effect of the dc bias on the impedance of the bead material, see figures 18-23 in the application note How to choose Ferrite Components for EMI Suppression.

A ½ turn is defined as a single pass through a hole.

$\Sigma l/A$ - Core Constant

l_e: Effective Path Length

A_e: Effective Cross-Sectional Area

V_e: Effective Core Volume

A_L - Inductance Factor $\left(\frac{L}{N^2}\right)$

NI - Value of dc Ampere-turns

N/AWG - Number of Turns/Wire Size for Test Coil

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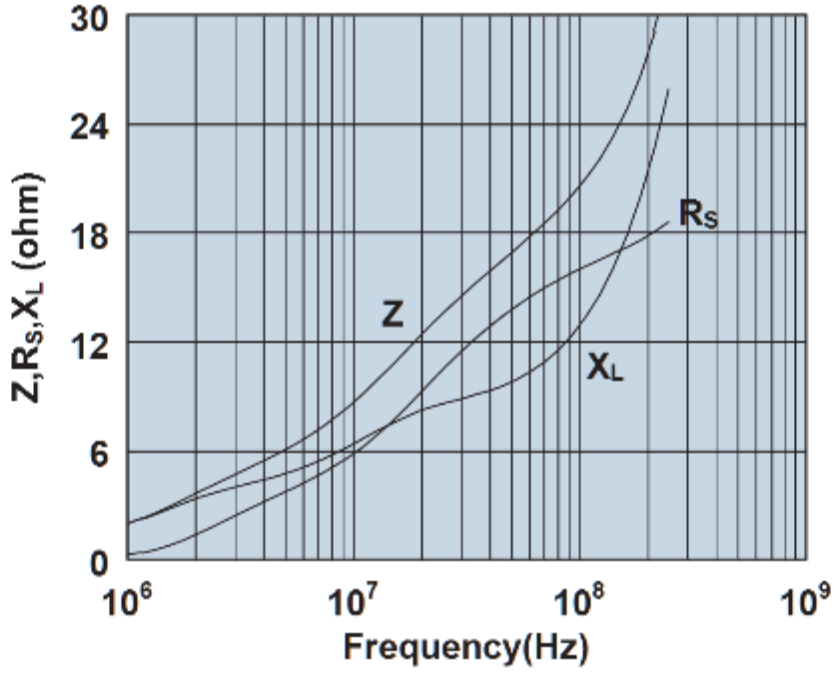

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Fair-Rite Product's Catalog
Part Data Sheet, 2673004801
Printed: 2010-11-09

Part Number: 2673004801

Description: 73 SHIELD BEAD

Preferred Part: ✓

Weight: .030 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	2.10	-0.15	0.080	-
B	0.85	+0.10	0.034	-
C	2.90	-0.45	0.105	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	5.5
5 MHz	13.5
10 MHz+	18
25 MHz+	28

Electrical Properties	
H(Oe)	3.10

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend
+ Test frequency
Preferred parts, the suggested choice for new designs,have shorter lead times and are more readily available.
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A ½ turn is defined as a single pass through a hole.
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l_e: Effective Path Length
A_e: Effective Cross-Sectional Area
V_e: Effective Core Volume
A_L - Inductance Factor $\left(\frac{L}{N^2}\right)$
NI - Value of dc Ampere-turns
N/AWG - Number of Turns/Wire Size for Test Coil

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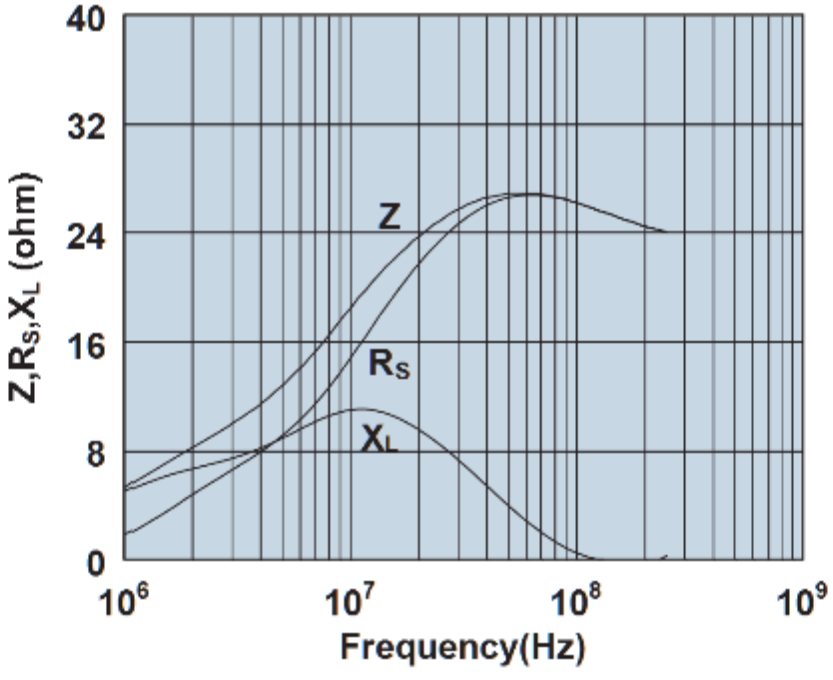

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Part Number: 2673028602

Description: 73 SHIELD BEAD

Weight: .070 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	2.13	-0.10	0.082	-
B	0.85	+0.10	0.034	-
C	5.60	±0.15	0.220	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	13
5 MHz	30.5
10 MHz+	38
25 MHz+	50

Electrical Properties	
H(Oe)	2.70

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend

+ Test frequency

Preferred parts, the suggested choice for new designs,have shorter lead times and are more readily available.

The column H(Oe) gives for each bead the calculated dc bias field in oersted for 1 turn and 1 ampere direct current. The actual dc H field in the application is this value of H times the actual NI (ampere-turn) product. For the effect of the dc bias on the impedance of the bead material, see figures 18-23 in the application note How to choose Ferrite Components for EMI Suppression.

A ½ turn is defined as a single pass through a hole.

$\Sigma l/A$ - Core Constant

l_e: Effective Path Length

A_e: Effective Cross-Sectional Area

V_e: Effective Core Volume

A_L - Inductance Factor $\left(\frac{L}{N^2}\right)$

NI - Value of dc Ampere-turns

N/AWG - Number of Turns/Wire Size for Test Coil

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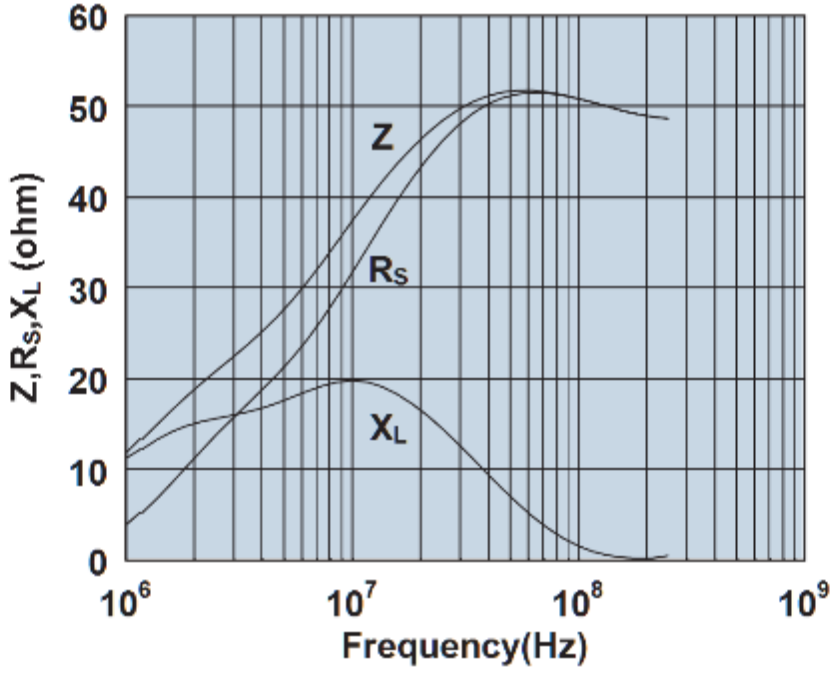

Impedance, reactance, and resistance vs. frequency.

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Fair-Rite Product's Catalog
Part Data Sheet, 2673012401
Printed: 2010-11-09

Part Number: 2673012401

Description: 73 SHIELD BEAD

Weight: .020 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	1.55	-0.10	0.059	-
B	0.95	+0.15	0.040	-
C	4.20	-0.25	0.160	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	3.5
5 MHz	8.6
10 MHz+	11
25 MHz+	19

Electrical Properties	
H(Oe)	3.30

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend

+ Test frequency

Preferred parts, the suggested choice for new designs,have shorter lead times and are more readily available.

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A ½ turn is defined as a single pass through a hole.

Σl/A - Core Constant

l_e: Effective Path Length

A_e: Effective Cross-Sectional Area

V_e: Effective Core Volume

A_L - Inductance Factor $\left(\frac{L}{N^2}\right)$

NI - Value of dc Ampere-turns

N/AWG - Number of Turns/Wire Size for Test Coil

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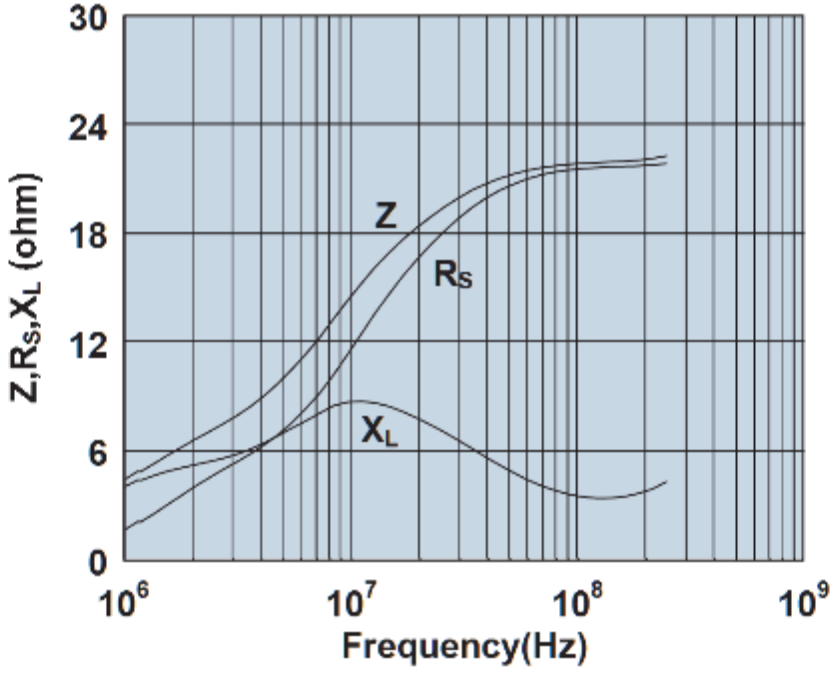

Impedance, reactance, and resistance vs. frequency.

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Part Number: 2673002201

Description: 73 SHIELD BEAD

Weight: .090 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	1.95	-0.02	0.072	-
B	1.05	+0.10	0.043	-
C	10.40	±0.25	0.410	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	14
5 MHz	33.5
10 MHz+	38
25 MHz+	55

Electrical Properties	
H(Oe)	2.90

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend

+ Test frequency

Preferred parts, the suggested choice for new designs,have shorter lead times and are more readily available.

The column H(Oe) gives for each bead the calculated dc bias field in oersted for 1 turn and 1 ampere direct current. The actual dc H field in the application is this value of H times the actual NI (ampere-turn) product. For the effect of the dc bias on the impedance of the bead material, see figures 18-23 in the application note How to choose Ferrite Components for EMI Suppression.

A ½ turn is defined as a single pass through a hole.

$\Sigma l/A$ - Core Constant

l_e: Effective Path Length

A_e: Effective Cross-Sectional Area

V_e: Effective Core Volume

A_L - Inductance Factor $\left(\frac{L}{N^2}\right)$

NI - Value of dc Ampere-turns

N/AWG - Number of Turns/Wire Size for Test Coil

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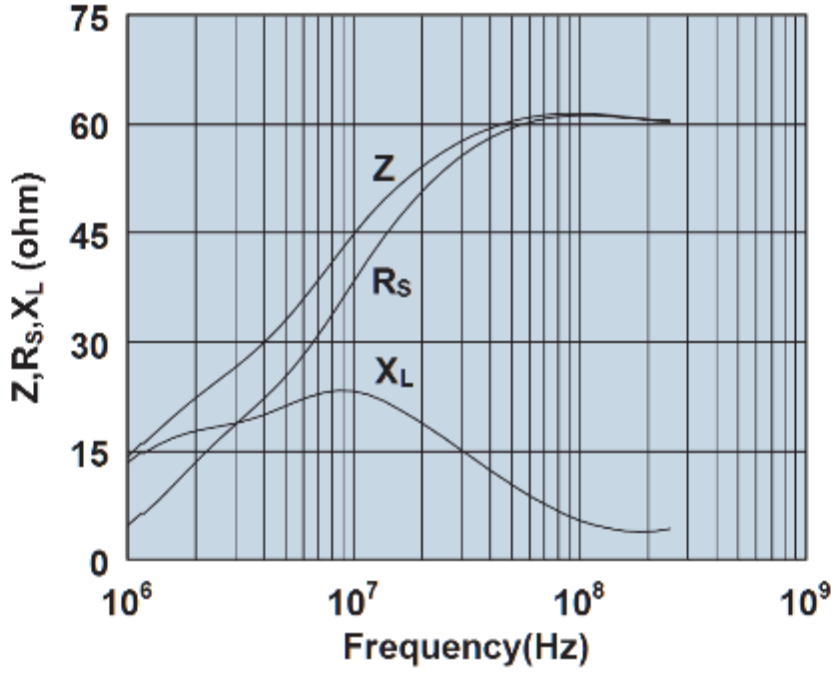

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Fair-Rite Product's Catalog
Part Data Sheet, 2673000501
Printed: 2010-11-09

Part Number: 2673000501

Description: 73 SHIELD BEAD

Preferred Part: ✓

Weight: .010 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	2.00	-0.15	0.076	-
B	1.05	+0.10	0.043	-
C	1.65	-0.25	0.060	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	2.1
5 MHz	6.3
10 MHz+	7.5
25 MHz+	12

Electrical Properties	
H(Oe)	2.80

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend
+ Test frequency
Preferred parts, the suggested choice for new designs,have shorter lead times and are more readily available.
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A_L - Inductance Factor $\left(\frac{L}{N^2}\right)$
NI - Value of dc Ampere-turns
N/AWG - Number of Turns/Wire Size for Test Coil

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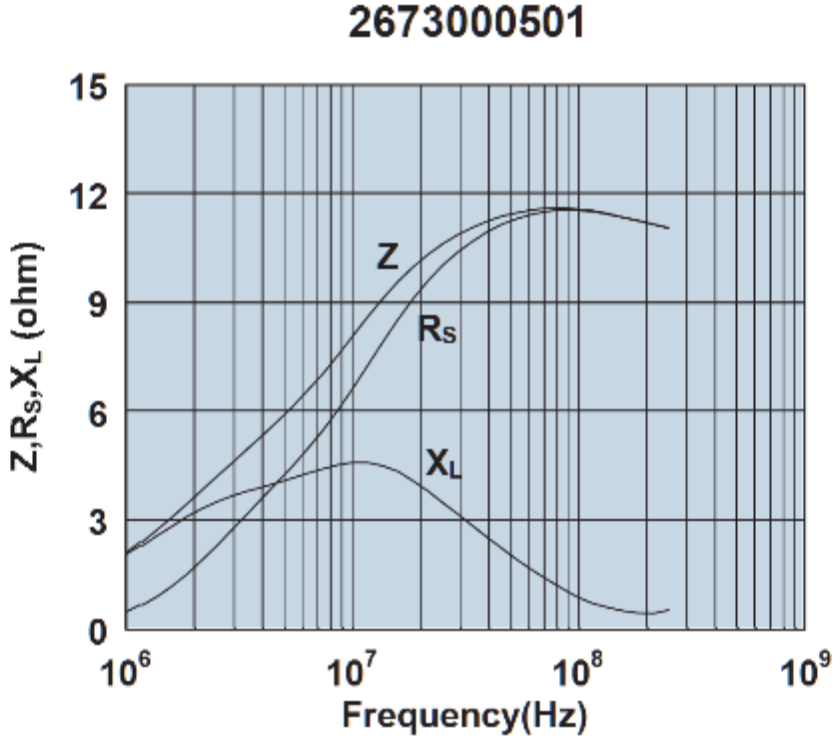

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Fair-Rite Product's Catalog
Part Data Sheet, 2673000201
Printed: 2010-11-09

Part Number: 2673000201

Description: 73 SHIELD BEAD

Weight: .040 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	2.00	-0.15	0.076	-
B	1.05	+0.10	0.043	-
C	3.80	±0.25	0.150	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	5.2
5 MHz	12.5
10 MHz+	18
25 MHz+	27

Electrical Properties	
H(Oe)	2.80

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend

+ Test frequency

Preferred parts, the suggested choice for new designs,have shorter lead times and are more readily available.

The column H(Oe) gives for each bead the calculated dc bias field in oersted for 1 turn and 1 ampere direct current. The actual dc H field in the application is this value of H times the actual NI (ampere-turn) product. For the effect of the dc bias on the impedance of the bead material, see figures 18-23 in the application note How to choose Ferrite Components for EMI Suppression.

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l_e: Effective Path Length

A_e: Effective Cross-Sectional Area

V_e: Effective Core Volume

A_L - Inductance Factor $\left(\frac{L}{N^2}\right)$

NI - Value of dc Ampere-turns

N/AWG - Number of Turns/Wire Size for Test Coil

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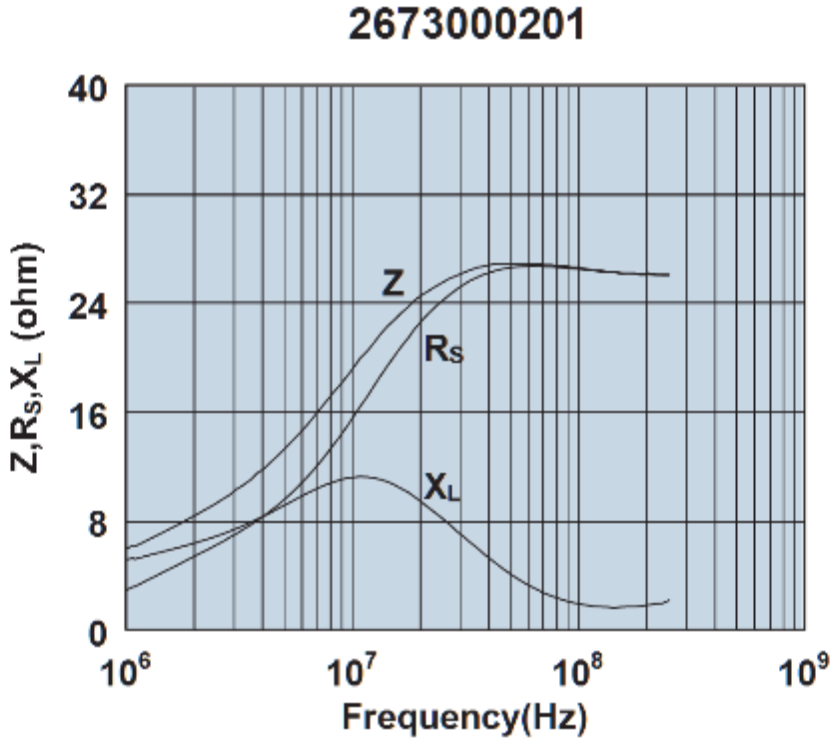

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Fair-Rite Product's Catalog
Part Data Sheet, 2673000101
Printed: 2010-11-09

Part Number: 2673000101

Description: 73 SHIELD BEAD

Preferred Part: ✓

Weight: .130 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	3.50	±0.20	0.138	-
B	1.30	±0.10	0.051	-
C	3.25	±0.25	0.128	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	8.1
5 MHz	19.5
10 MHz+	25
25 MHz+	35

Electrical Properties	
H(Oe)	2.00

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend
+ Test frequency
Preferred parts, the suggested choice for new designs,have shorter lead times and are more readily available.
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V_e: Effective Core Volume
A_L - Inductance Factor $\left(\frac{L}{N^2}\right)$
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N/AWG - Number of Turns/Wire Size for Test Coil

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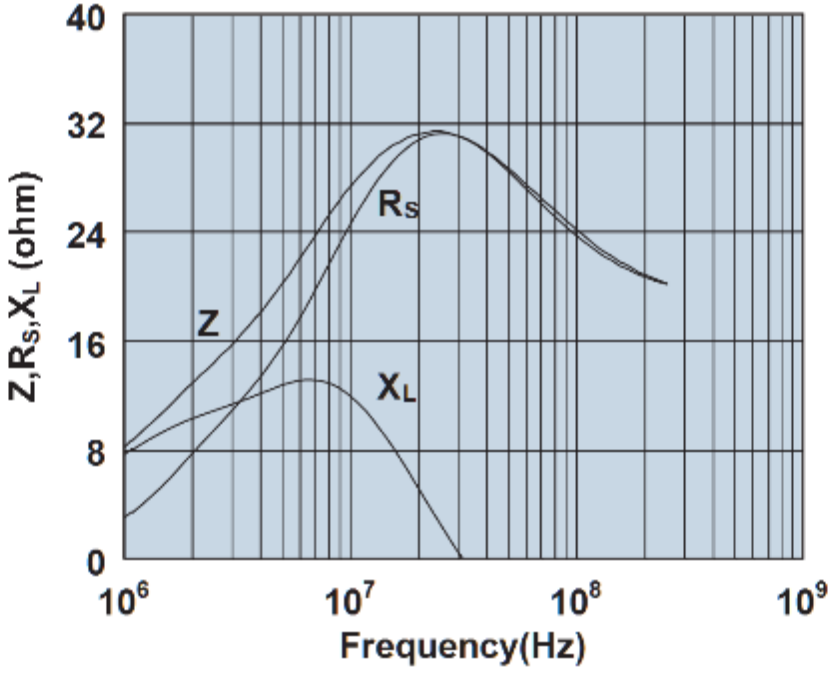

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Fair-Rite Product's Catalog
Part Data Sheet, 2673000301
Printed: 2010-11-09

Part Number: 2673000301

Description: 73 SHIELD BEAD

Preferred Part: ✓

Weight: .240 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	3.50	±0.20	0.138	-
B	1.30	±0.10	0.051	-
C	6.00	±0.25	0.236	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	15.5
5 MHz	37.5
10 MHz+	57
25 MHz+	63

Electrical Properties	
H(Oe)	2.00

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend

+ Test frequency

Preferred parts, the suggested choice for new designs,have shorter lead times and are more readily available.

The column H(Oe) gives for each bead the calculated dc bias field in oersted for 1 turn and 1 ampere direct current. The actual dc H field in the application is this value of H times the actual NI (ampere-turn) product. For the effect of the dc bias on the impedance of the bead material, see figures 18-23 in the application note How to choose Ferrite Components for EMI Suppression.

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Σl/A - Core Constant

l_e: Effective Path Length

A_e: Effective Cross-Sectional Area

V_e: Effective Core Volume

A_L - Inductance Factor $\left(\frac{L}{N^2}\right)$

NI - Value of dc Ampere-turns

N/AWG - Number of Turns/Wire Size for Test Coil

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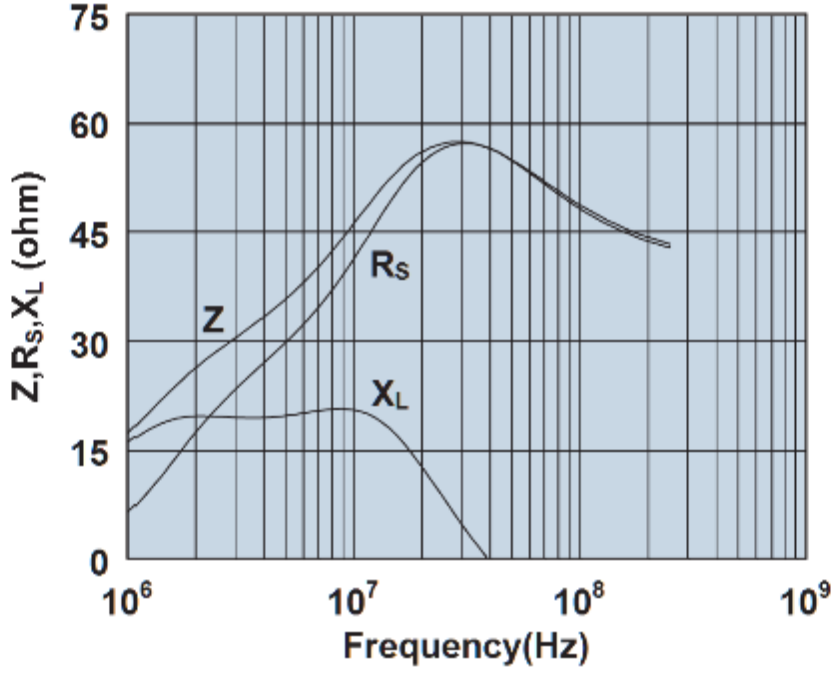

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Part Number: 2673000701

Description: 73 SHIELD BEAD

Weight: .510 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	3.50	±0.20	0.138	-
B	1.30	±0.10	0.051	-
C	12.70	±0.35	0.500	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	34.5
5 MHz	81.5
10 MHz+	120
25 MHz+	125

Electrical Properties	
H(Oe)	2.00

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend

+ Test frequency

Preferred parts, the suggested choice for new designs,have shorter lead times and are more readily available.

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A_e: Effective Cross-Sectional Area

V_e: Effective Core Volume

A_L - Inductance Factor $\left(\frac{L}{N^2}\right)$

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N/AWG - Number of Turns/Wire Size for Test Coil

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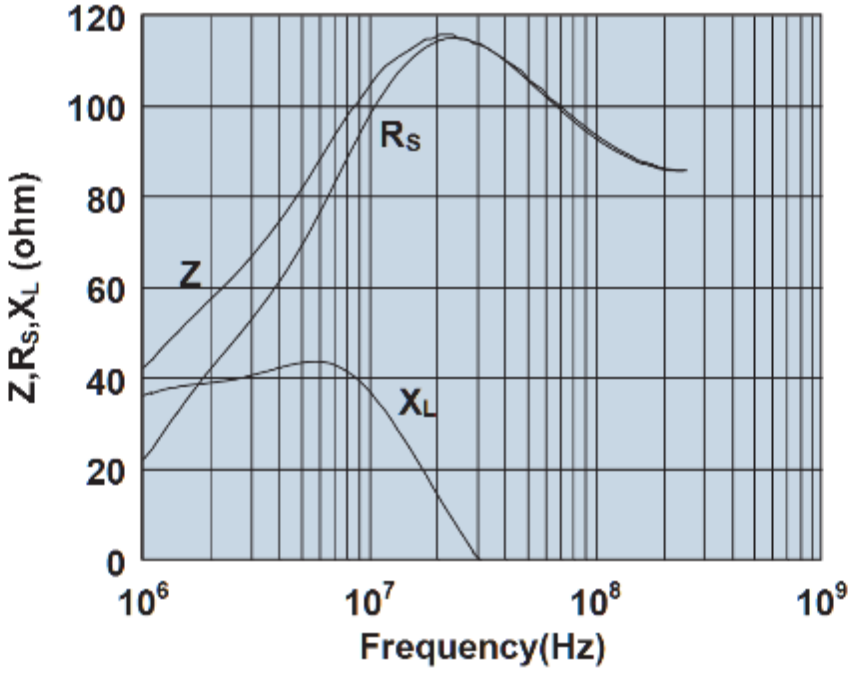

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Part Number: 2673022401

Description: 73 SHIELD BEAD

Weight: .560 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	5.10	±0.25	0.200	-
B	1.45	+0.25	0.062	-
C	6.35	±0.25	0.250	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	20
5 MHz	47.5
10 MHz+	54
25 MHz+	58

Electrical Properties	
H(Oe)	1.50

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend

+ Test frequency

Preferred parts, the suggested choice for new designs,have shorter lead times and are more readily available.

The column H(Oe) gives for each bead the calculated dc bias field in oersted for 1 turn and 1 ampere direct current. The actual dc H field in the application is this value of H times the actual NI (ampere-turn) product. For the effect of the dc bias on the impedance of the bead material, see figures 18-23 in the application note How to choose Ferrite Components for EMI Suppression.

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l_e: Effective Path Length

A_e: Effective Cross-Sectional Area

V_e: Effective Core Volume

A_L - Inductance Factor $\left(\frac{L}{N^2}\right)$

NI - Value of dc Ampere-turns

N/AWG - Number of Turns/Wire Size for Test Coil

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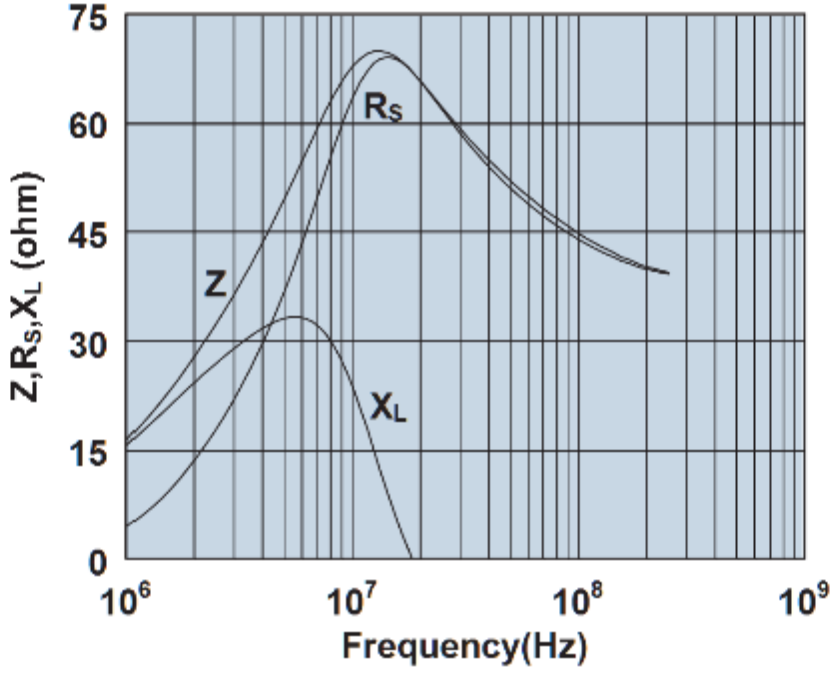

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Part Number: 2673021801

Description: 73 SHIELD BEAD

Preferred Part: ✓

Weight: 1.000 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	5.10	±0.25	0.200	-
B	1.45	+0.25	0.062	-
C	11.10	±0.35	0.437	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	35.5
5 MHz	84
10 MHz+	94
25 MHz+	95

Electrical Properties	
H(Oe)	1.50

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend
+ Test frequency
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NI - Value of dc Ampere-turns
N/AWG - Number of Turns/Wire Size for Test Coil

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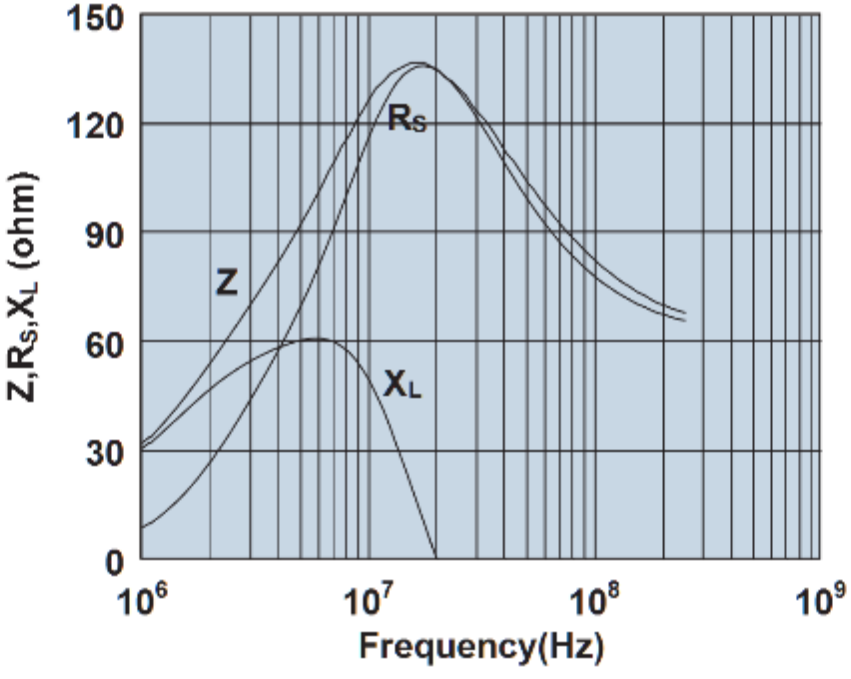

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Part Number: 2673018001

Description: 73 SHIELD BEAD

Weight: .130 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	2.85	±0.10	0.112	-
B	1.65	+0.15	0.068	-
C	6.65	±0.25	0.262	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	8.3
5 MHz	20
10 MHz+	29
25 MHz+	41

Electrical Properties	
H(Oe)	1.80

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend

+ Test frequency

Preferred parts, the suggested choice for new designs,have shorter lead times and are more readily available.

The column H(Oe) gives for each bead the calculated dc bias field in oersted for 1 turn and 1 ampere direct current. The actual dc H field in the application is this value of H times the actual NI (ampere-turn) product. For the effect of the dc bias on the impedance of the bead material, see figures 18-23 in the application note How to choose Ferrite Components for EMI Suppression.

A ½ turn is defined as a single pass through a hole.

Σl/A - Core Constant

l_e: Effective Path Length

A_e: Effective Cross-Sectional Area

V_e: Effective Core Volume

A_L - Inductance Factor $\left(\frac{L}{N^2}\right)$

NI - Value of dc Ampere-turns

N/AWG - Number of Turns/Wire Size for Test Coil

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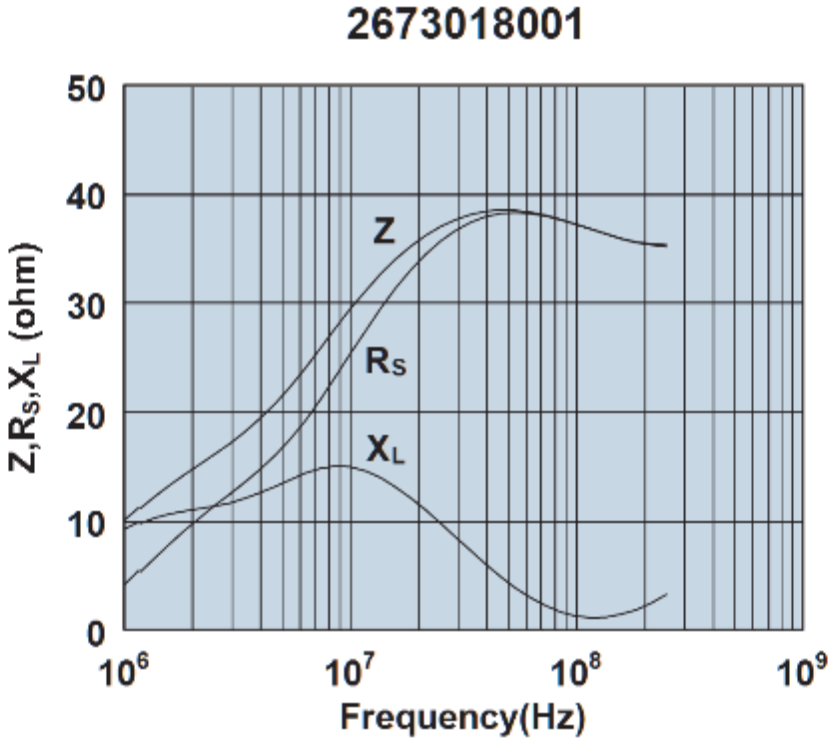

Impedance, reactance, and resistance vs. frequency.

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Part Number: 2673004901

Description: 73 SHIELD BEAD

Weight: .200 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	2.85	±0.10	0.112	-
B	1.65	+0.15	0.068	-
C	10.45	±0.25	0.410	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	13.5
5 MHz	32.5
10 MHz+	40
25 MHz+	58

Electrical Properties	
H(Oe)	1.80

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend

+ Test frequency

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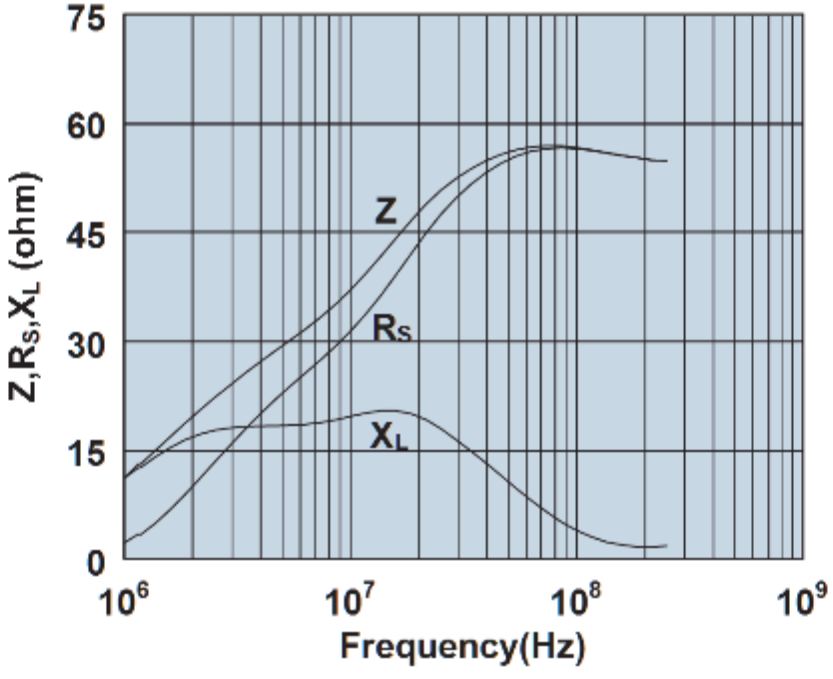

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Fair-Rite Product's Catalog
Part Data Sheet, 2673001601
Printed: 2010-11-09

Part Number: 2673001601

Description: 73 SHIELD BEAD

Weight: .110 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	3.55	±0.15	0.140	-
B	1.65	+0.25	0.070	-
C	3.30	-0.40	0.122	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	5.1
5 MHz	12.5
10 MHz+	16
25 MHz+	24

Electrical Properties	
H(Oe)	1.60

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend

+ Test frequency

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l_e: Effective Path Length

A_e: Effective Cross-Sectional Area

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A_L - Inductance Factor $\left(\frac{L}{N^2}\right)$

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N/AWG - Number of Turns/Wire Size for Test Coil

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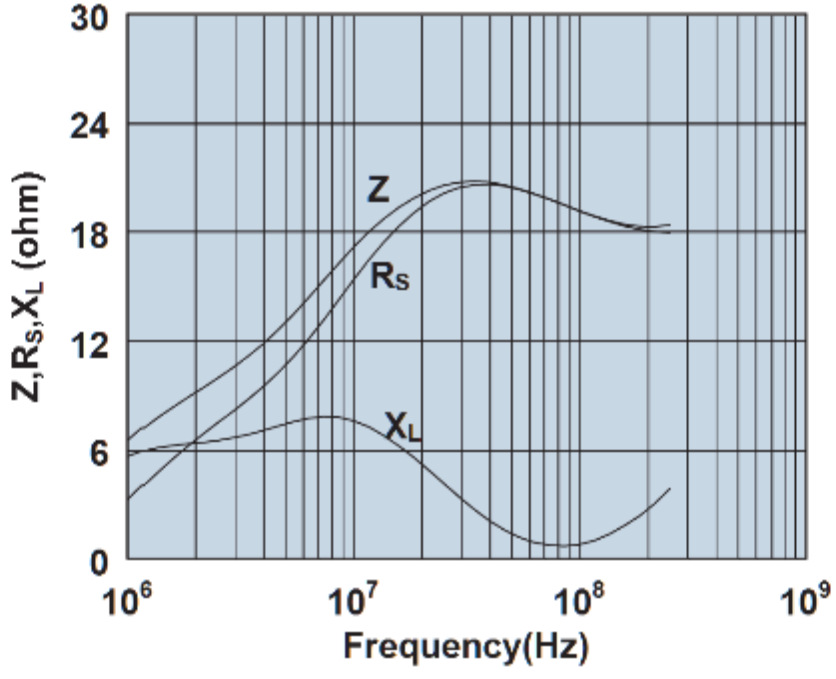

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Part Number: 2673015301

Description: 73 SHIELD BEAD

Weight: .320 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	4.10	-0.25	0.156	-
B	1.80	±0.15	0.071	-
C	6.85	±0.25	0.270	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	14
5 MHz	34
10 MHz+	41
25 MHz+	54

Electrical Properties	
H(Oe)	1.50

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend

+ Test frequency

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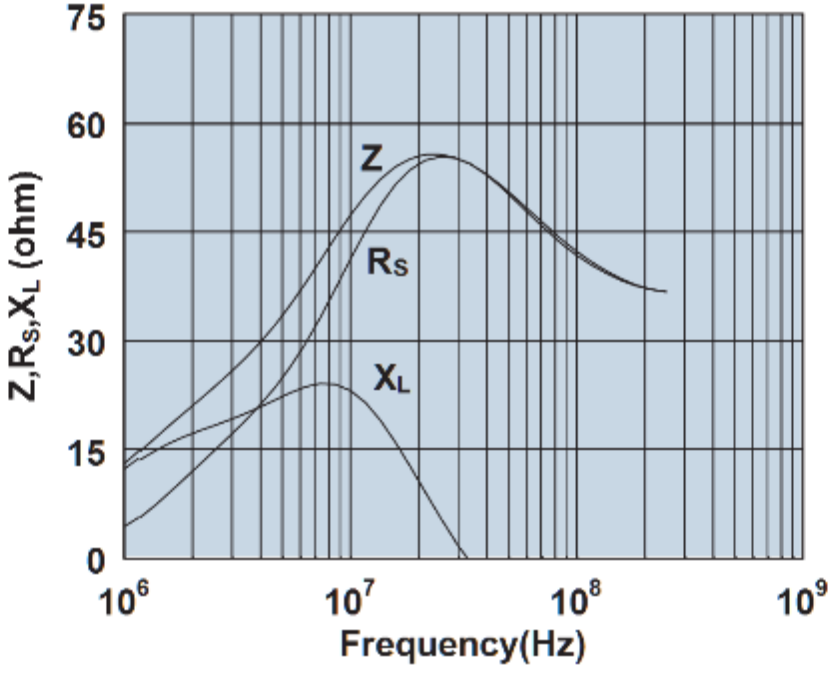

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Fair-Rite Product's Catalog
Part Data Sheet, 2673000801
Printed: 2010-11-09

Part Number: 2673000801

Description: 73 SHIELD BEAD

Preferred Part: ✓

Weight: 1.400 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	7.50	±0.25	0.296	-
B	2.25	+0.25	0.094	-
C	7.55	±0.25	0.297	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	23
5 MHz	55.5
10 MHz+	48
25 MHz+	45

Electrical Properties	
H(Oe)	1.00

Legend
+ Test frequency
Preferred parts, the suggested choice for new designs,have shorter lead times and are more readily available.
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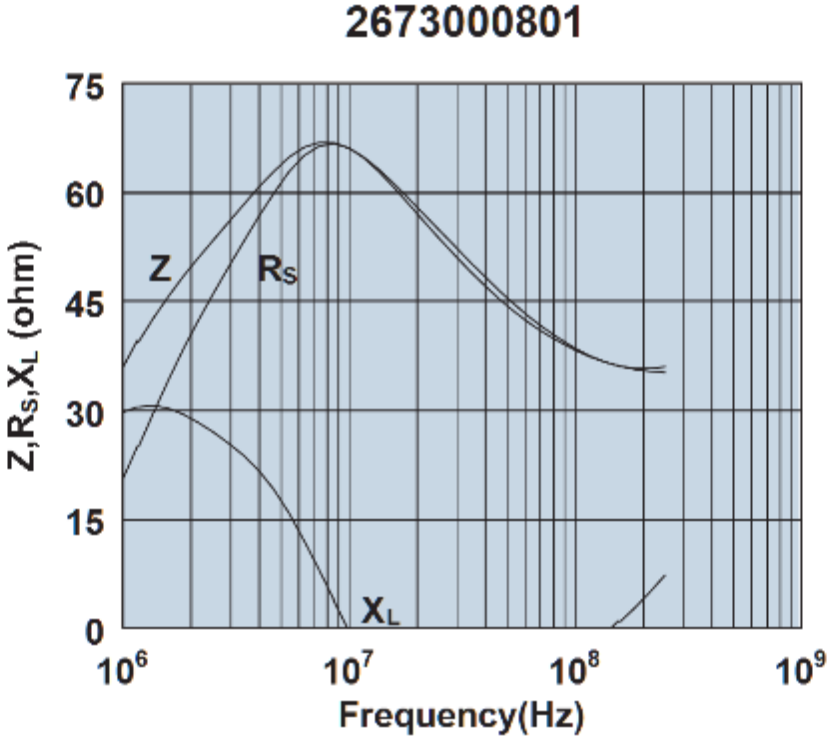

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Fair-Rite Product's Catalog
Part Data Sheet, 2673200201
Printed: 2010-11-09

Part Number: 2673200201

Description: 73 SHIELD BEAD

Weight: 1.600 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	5.20	±0.15	0.205	-
B	2.65	±0.25	0.105	-
C	20.60	±0.75	0.812	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	37
5 MHz	89
10 MHz+	110
25 MHz+	113

Electrical Properties	
H(Oe)	1.10

Legend

+ Test frequency

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A_L - Inductance Factor $\left(\frac{L}{N^2}\right)$

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N/AWG - Number of Turns/Wire Size for Test Coil

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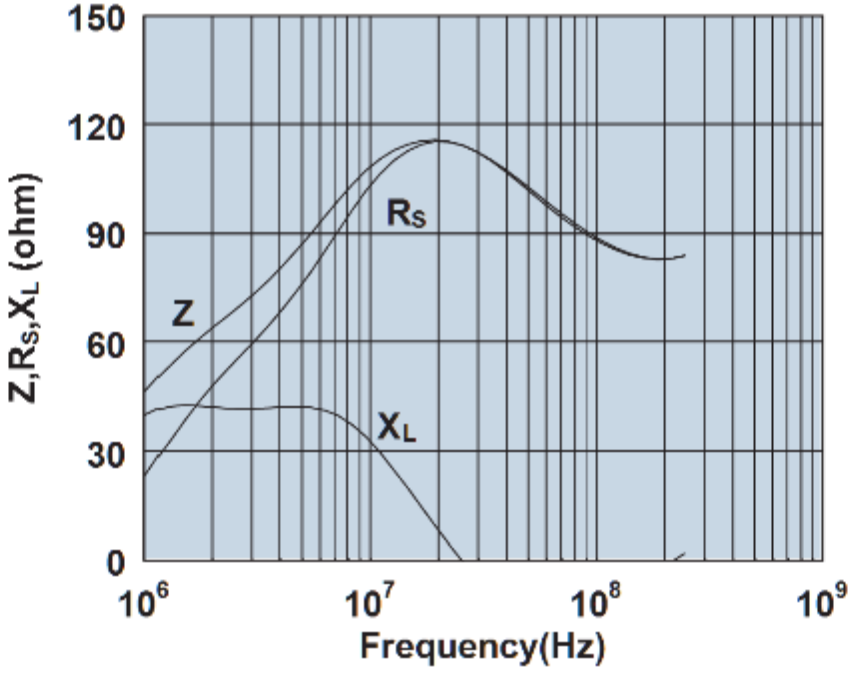

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Fair-Rite Product's Catalog
Part Data Sheet, 2673003201
Printed: 2010-11-09

Part Number: 2673003201

Description: 73 SHIELD BEAD

Weight: 1.000 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	5.60	-0.50	0.210	-
B	2.65	±0.25	0.105	-
C	12.70	±0.50	0.500	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	23.5
5 MHz	56.5
10 MHz+	60
25 MHz+	60

Electrical Properties	
H(Oe)	1.10

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend

+ Test frequency

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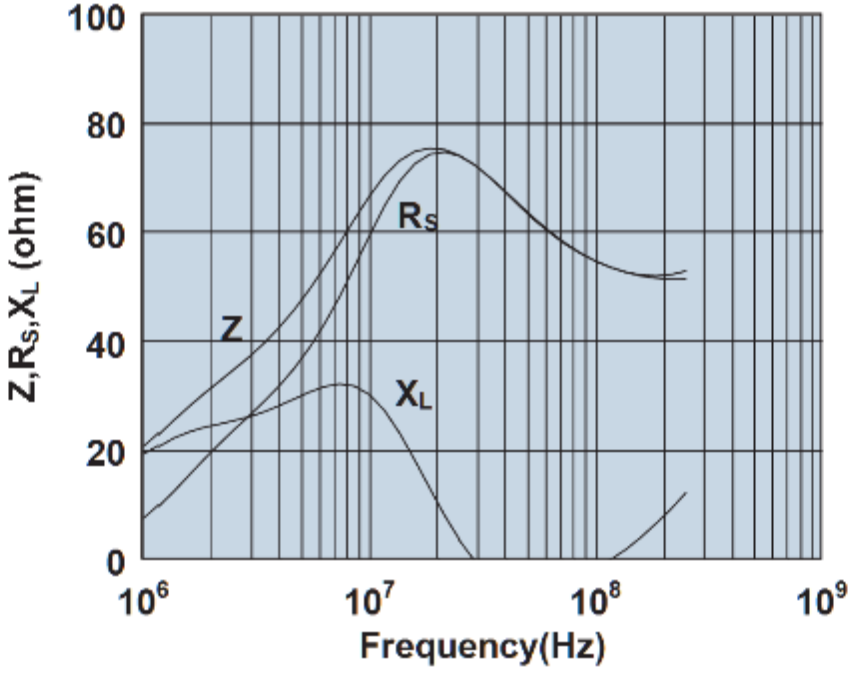

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Fair-Rite Product's Catalog
Part Data Sheet, 2673002402
Printed: 2010-11-09

Part Number: 2673002402

Description: 73 SHIELD BEAD

Preferred Part: ✓

Weight: 1.200 (g)

Mechanical Specifications

Dim	mm	mm tol	nominal inch	inch misc.
A	9.65	±0.25	0.380	-
B	5.00	±0.20	0.197	-
C	5.05	-0.45	0.190	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
H	-	-	-	-
J	-	-	-	-
K	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)	
1 MHz	7.9
5 MHz	19
10 MHz+	19
25 MHz+	15

Electrical Properties	
H(Oe)	.59

Land Patterns

V	W ref	X	Y	Z
- -	- -	- -	- -	- -

Winding Information

Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
-	-	-	-

Reel Information

Tape Width mm	Pitch mm	Parts 7 " Reel	Parts 13 " Reel	Parts 14 " Reel
-	-	-	-	-

Package Size

Pkg Size
- (-)

Connector Plate

# Holes	# Rows
-	-

Legend
+ Test frequency
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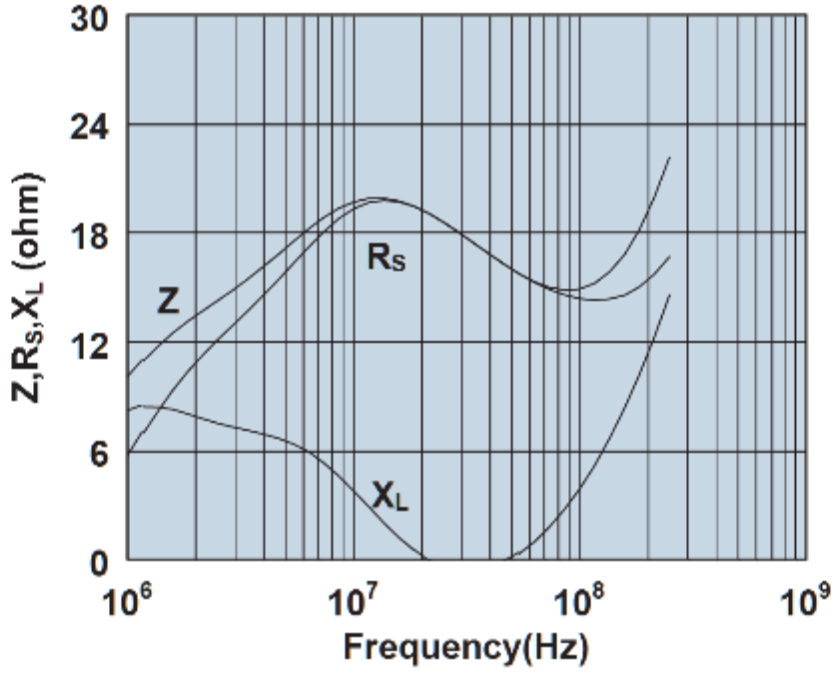

Impedance, reactance, and resistance vs. frequency.