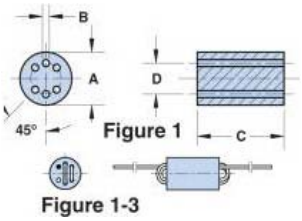

Figure 1-3

Part Number: 2961666671
Frequency Range: Higher Frequencies 50-500 MHz (61 material)
Description: WB6/10/24-61-5 61 WOUND BEAD
Application: Suppression Components
Where Used: Board Component
Part Type: Wound Beads
Preferred Part: ✓

Part Type Information

Mechanical Specifications

Weight: 1.40 (g)

View Chart Legend

Dim	mm	mm tol	nominal inch	inch misc.
A	6.00	±0.25	0.236	_
B	0.75	+0.15	0.032	_
C	10.00	±0.25	0.394	_
D	3.50	Ref	0.138	Ref
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
2½	0.53 24 AWG	38.0 ±3.0 1.500	_

Reel Information				
Tape Width mm	Pitch mm	Parts 7" Reel	Parts 13" Reel	Parts 14" Reel
_	_	_	_	_

Pkg Size
_

Connector Plate	
# Holes	# Rows
_	_

Cable Information			
Max Diameter	Max Dimension	Solid Equivalent	Flat Cable Cores
_	_	_	_

Electrical Specifications

Typical Impedance (Ω)	
10 MHz	150
50 MHz+	560
100 MHz+	780
200 MHz+	960
400 MHz	600

Electrical Properties	
_	_

Ferrite Material Constants

Specific Heat	0.25 cal/g/°C
Thermal Conductivity	10×10^{-3} cal/sec/cm/°C
Coefficient of Linear Expansion	8 - 10×10^{-6}/°C
Tensile Strength	4.9 kgf/mm²
Compressive Strength	42 kgf/mm²
Young's Modulus	15×10^{3} kgf/mm²
Hardness (Knoop)	650
Specific Gravity	≈ 4.7 g/cm³

The above quoted properties are typical for Fair-Rite MnZn and NiZn ferrites.

61 Material Specifications:

Property	Unit	Symbol	Value
Initial Permeability @ B < 10 gauss		μ_i	125
Flux Density	gauss	B	2350
@ Field Strength	oersted	H	15
Residual Flux Density	gauss	B_r	1200
Coercive Force	oersted	H_c	1.8

Loss Factor @ Frequency	10^{-6} MHz	$\tan\delta/\mu_i$	30 1.0
Temperature Coefficient of Initial Permeability (20 -70°C)	%/°C		0.10
Curie Temperature	°C	T_c	>300
Resistivity	Ω cm	ρ	$1x10^8$

Impedance Curve

(c) Copyright www.fair-rite.com 2007. All Rights Reserved. Site Map
Telephone: (888)324-7748 Application Engineering questions: ferrites@fair-rite.com Web Site Questions: webmaster@fair-rite.com