

Figure 2

Part Number: 0443167251
 Frequency Range: Broadband Frequencies 25-300 MHz (43 & 44 materials)
 Description: CSRA22/22/32-43-10 43 ROUND CABLE CORE ASSEMBLY
 Application: Suppression Components
 Where Used: Cable Component
 Part Type: Round Cable Snap-its
 Preferred Part: ✓

Part Type Information

Mechanical Specifications

Weight: 42.00 (g)

[View Chart Legend](#)

Dim	mm	mm tol	nominal inch	inch misc.	Land Patterns					Winding Information			
					V	W (ref)	X	Y	Z	Turns Tested	Wire Size	1st Wire Length	2nd Wire Length
A	22.10	—	0.870	—	—	—	—	—	—	—	—	—	—
B	10.15	—	0.400	—	Reel Information					Pkg Size			
C	32.30	—	1.272	—	Tape Width mm	Pitch mm	Parts 7" Reel	Parts 13" Reel	Parts 14" Reel	—			
D	11.00	—	0.433	—						—	—	—	—
E	—	—	—	—	Connector Plate								
F	—	—	—	—	# Holes				# Rows				
G	—	—	—	—	—								
H	—	—	—	—	Cable Information								
J	—	—	—	—	Max Diameter		Max Dimension		Solid Equivalent		Flat Cable Cores		
K	—	—	—	—	9.850 .388		—		2643626402		—		

Electrical Specifications

Typical Impedance (Ω)	
10 MHz	79
25 MHz ⁺	138
100 MHz ⁺	225
250 MHz	285

Electrical Properties	
—	—

Ferrite Material Constants

Specific Heat	0.25 cal/g ^o C
Thermal Conductivity	10x10 ⁻³ cal/sec/cm ^o C
Coefficient of Linear Expansion	8 - 10x10 ⁻⁶ /°C
Tensile Strength	4.9 kgf/mm ²
Compressive Strength	42 kgf/mm ²
Young's Modulus	15x10 ³ kgf/mm ²
Hardness (Knoop)	650
Specific Gravity	≈ 4.7 g/cm ³

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

This NiZn is our most popular ferrite for suppression of conducted EMI from 20 MHz to 250 MHz. This material is also used for inductive applications such as high frequency common-mode chokes.

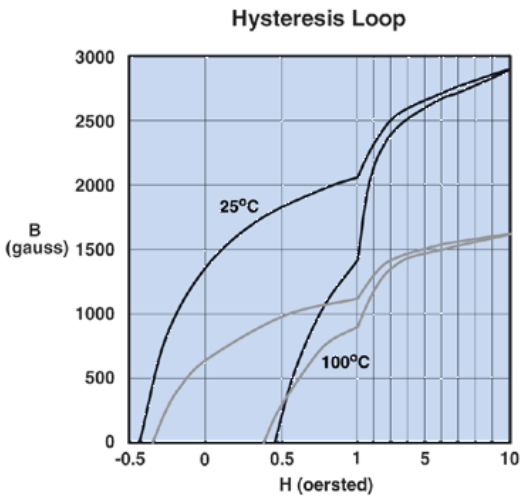
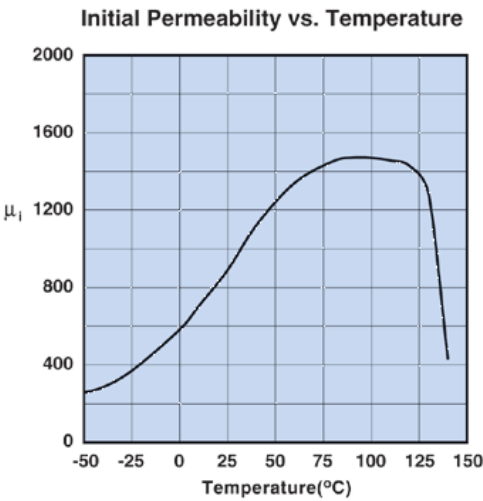
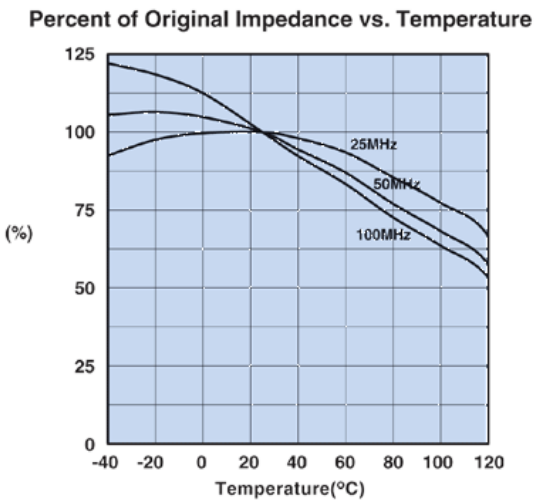
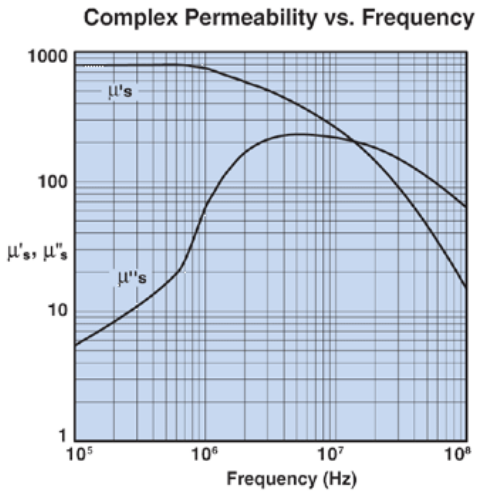
EMI suppression beads, beads on leads, SM beads, multi-aperture cores, round cable EMI suppression cores, round cable snap-its, flat cable EMI suppression cores, flat cable snap-its, miscellaneous

43 Material Specifications:

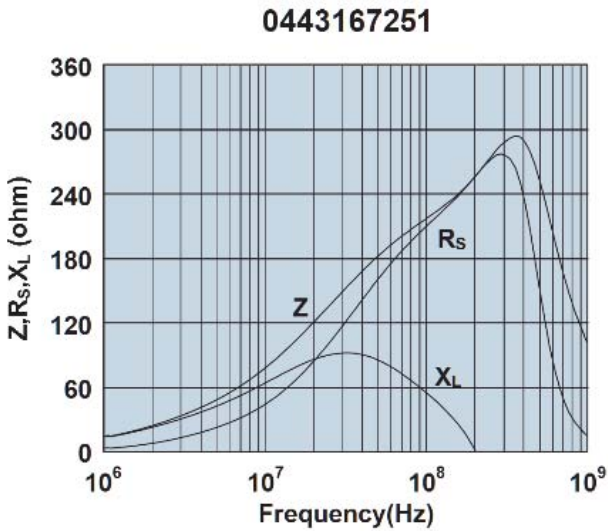
Property	Unit	Symbol	Value
Initial Permeability @ B < 10 gauss		μ _i	800
Flux Density @ Field Strength	gauss	B	2900
	oersted	H	10
Residual Flux Density	gauss	B _r	1300
Coercive Force	oersted	H _c	0.45

suppression cores, bobbins, and toroids are all available in 43 material.

Loss Factor	10^{-3}	$\tan \delta / \mu_i$	250
Frequency	MHz		1.0
Temperature Coefficient of Initial Permeability (20 -70°C)	%/°C		1.25
Curie Temperature	°C	T_c	>130
Resistivity	Ω cm	ρ	1×10^5



Impedance Curve



Impedance, reactance, and resistance vs. frequency.

