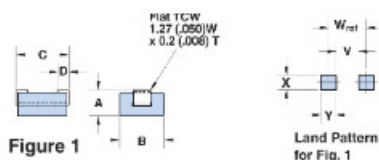


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Part Number: 2743019447
Frequency Range: Broadband Frequencies 25-300 MHz (43 & 44 materials)
Description: BDS2.9/3.1/4.7-43-1 43 SM BEAD
Application: Suppression Components
Where Used: Board Component
Part Type: SM Beads (Differential-Mode)
Preferred Part: ✓

Part Type Information

Mechanical Specifications

Weight: 0.15 (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	2
A	2.85	±0.20	0.112	—	1.000 0.040	4.000 0.157	1.800 0.071	3.000 0.118	—	—	—	—	—
B	3.05	±0.10	0.120	—									
C	5.10	-0.85	0.184	—									
D	1.50	±0.50	0.059	—									
E	—	—	—	—									
F	—	—	—	—									
G	—	—	—	—									
H	—	—	—	—									
J	—	—	—	—									
K	—	—	—	—									

Reel Information					Pkg Size	
Tape Width mm	Pitch mm	Parts 7" Reel	Parts 13" Reel	Parts 14" Reel	—	
12	8	—	2800	—	—	

Connector Plate			
# Holes		# Ro	
—		—	

Cable Information			
Max Diameter	Max Dimension	Solid Equivalent	Flat Ca Core
—	—	—	—

Electrical Specifications

Typical Impedance (Ω)	
10 MHz	18
25 MHz ⁺	29
100 MHz ⁺	47
250 MHz	49

Electrical Properties	
Max Rdc(mΩ)	.80

43 Material Specifications:

Property	Unit	Symbol	Value
Initial Permeability @ B < 10 gauss		μ _i	800
Flux Density @ Field Strength	gauss oersted	B H	2900 10
Residual Flux Density	gauss	B _r	1300
Coercive Force	oersted	H _c	0.45
Loss Factor @ Frequency	10 ⁻⁶ MHz	tan δ/μ _i	250 1.0
Temperature Coefficient of Initial Permeability (20 -70°C)	%/°C		1.25
Curie Temperature	°C	T _c	>130
Resistivity	Ω cm	ρ	1x10 ⁵

Ferrite Material Constants

Specific Heat	0.25 cal/g
Thermal Conductivity	10x10 ⁻³ ca
Coefficient of Linear Expansion	8 - 10x10 ⁻⁴
Tensile Strength	4.9 kgf/mm
Compressive Strength	42 kgf/mm
Young's Modulus	15x10 ³ kgf
Hardness (Knoop)	650
Specific Gravity	≈ 4.7 g/cm
The above quoted properties are typical for Fair-Rite MnZn and I	