

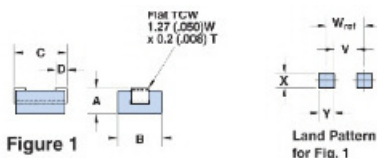
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Catalog Part Search:



**Part Number:** 2743021447  
**Frequency Range:** Broadband Frequencies 25-300 MHz (43 & 44 materials)  
**Description:** BDS2.9/3.1/9.1-43-1 43 SM BEAD  
**Application:** Suppression Components  
**Where Used:** Board Component  
**Part Type:** SM Beads (Differential-Mode)  
**Preferred Part:** ✓

**Part Type Information**

**Mechanical Specifications**

**Weight:** 0.30 (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	-	4.500	7.500	1.800	3.000	-	-	-	-	-	-
B	3.05	±0.10	0.120	-	0.177	0.295	0.071	0.118	-	-	-	-	-	-
C	9.60	-0.95	0.359	-	Reel Information					Pkg Size				
D	1.50	±0.50	0.059	-	Tape Width mm	Pitch mm	Parts 7" Reel	Parts 13" Reel	Parts 14" Reel	-				
E	-	-	-	-	16	8	-	2800	-	Connector Plate				
F	-	-	-	-	Cable Information					# Holes		# Ro		
G	-	-	-	-	Max Diameter	Max Dimension	Solid Equivalent		Flat Ca Core		-			
H	-	-	-	-	-	-	-		-		-			
J	-	-	-	-										
K	-	-	-	-										

**Electrical Specifications**

Typical Impedance (Ω)	
10 MHz	37
25 MHz <sup>+</sup>	56
100 MHz <sup>+</sup>	95
250 MHz	100

Electrical Properties	
Max Rdc(mΩ)	1.20

**43 Material Specifications:**

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

**Ferrite Material Constants**

Specific Heat	0.25 cal/g
Thermal Conductivity	10x10 <sup>-3</sup> ca
Coefficient of Linear Expansion	8 - 10x10 <sup>-4</sup>
Tensile Strength	4.9 kgf/mm
Compressive Strength	42 kgf/mm
Young's Modulus	15x10 <sup>3</sup> kgf
Hardness (Knoop)	650
Specific Gravity	≈ 4.7 g/cm

*The above quoted properties are typical for Fair-Rite MnZn and I*