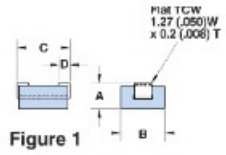
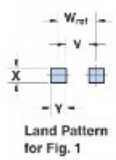


Figure 1



Land Pattern for Fig. 1

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.
A	2.85	±0.20	0.112	_
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	_	_	_	_

Land Patterns				
V	W (ref)	X	Y	Z
1.000 0.040	4.000 0.157	1.800 0.071	3.000 0.118	_

Winding Information			
Turns Tested	Wire Size	1st Wire Length	2
_		_	

Reel Information				
Tape Width mm	Pitch mm	Parts 7" Reel	Parts 13" Reel	Parts 14" Reel
12	8	_	2800	_

Pkg Size
_

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	$\tan\delta/\mu_i$	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
Tensile Strength	4.9 kgf/mm
Compressive Strength	42 kgf/mm
Young's Modulus	$15x10^3$ kg
Hardness (Knoop)	650
Specific Gravity	≈ 4.7 g/cm

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