Fair-Rite Products Corp.

Your Signal Solution[®]

SM Beads (Differential- Mode)



Part Number: 2743019447

43 SM BEAD

Explanation of Part Numbers: - Digits 1 & 2 = Product Class - Digits 3 & 4 = Material Grade - Last digit 6 = Bulk Packed, 7 = Taped and Reeled

Surface mount beads are available from Fair- Rite in several materials and sizes. Their rugged construction lowers the dc resistance and increases current carrying capacity compared to plated beads.

Wires are oxygen free high conductivity copper with 100% matte tin plating over a nickel undercoating.

SM Beads meet the solderability specifications when tested in accordance with MIL- STD-202, method 208. After dipping the mounting site of the bead, the solder surface shall be at least 95% covered with a smooth solder coating. The edges of the copper strip are not specified as solderable surfaces.

After preheating the beads to within 100 °C of the soldering temperature, the parts meet the resistance to soldering requirements of EIA-186-10E, temperature 260 ± 5 °C and time 10 ± 1 seconds.

Recommended storage and operation temperature is -55 °C to 125 °C.

Our "Surface Mount Bead Kit" (part number 0199000025) is available for prototype evaluation.

Recommended Soldering Profile

Packaging Options:

- SM Beads on 12 mm tape width are supplied taped and reeled per EIA 481 and IEC 60286-3 standards. SM Beads on 16 and 24 mm tape widths are supplied taped and reeled per EIA 481 and IEC 60286-3 standards. Taped and reeled parts are supplied on a 13" reel.

- SM Beads can also be supplied not taped and reeled and then are bulk packed. This packing method will change the last digit of the part number to a "6".

For any SM Bead requirement not listed, please contact our customer service group for availability and pricing.

Catalog Drawing 3D Model

Suggested land patterns are in accordance with the latest revision of IPC-7351.

<u>Weight:</u> 0.15 (g)

Dim	mm	mm tol	nominal incl	n inch mis	sc.	
А	3.05	Max. (mm)	0.120	Max	Max	
В	3.05	±0.10	0.12	_		
С	5.1	Max (mm)	0.200 Max	Max	Max	
D	1.5	±0.50	0.059	_		
Land	Patterr	ıs				
V		W	Х	Y	Ζ	
1.00		4.00	1.80	3.00		
(0.040")		(0.157")	(0.071")	(0.118")	-	

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

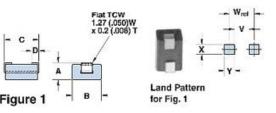


Chart Legend + Test frequency

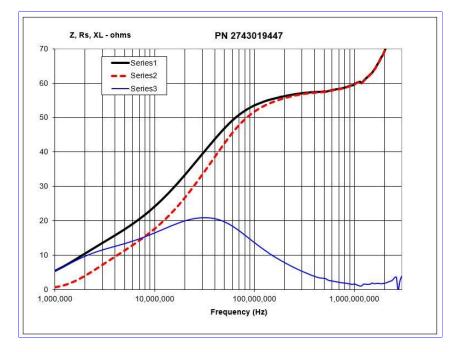
Typical Impedance (Ω)				
10 MHz				
25 MHz^+				
100 MHz^{+}				
250 MHz				
Electrical Properties				
Max Rdc(mΩ)	0.8			

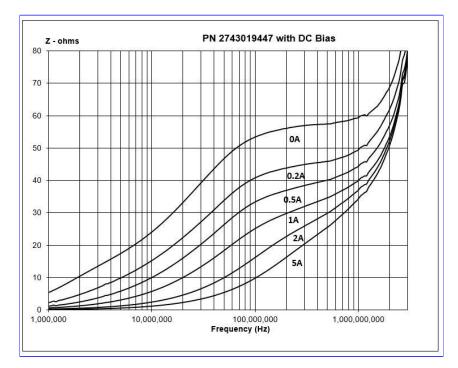
SM Beads are controlled for impedance limits only. Minimum impedance values are specified for the + marked frequencies. The minimum impedance is listed on our catalog drawing.

Catalog Drawing

SM Beads in 73 material are measured for impedance on the E4990A Impedance Analyzer. The 43, 43, 52 and 61 SM Beads are tested for impedance on the E4991A / HP4291B Impedance Analyzer. The minimum impedance is typically the listed value less 20%.

The maximum practical current rating for these SM Beads is 5 amps, check the component bias curves. The 019/021/037 and 044 SM Beads can withstand a continuous current of 10 amps resulting in a component temperature rise < 40 °C





CSV Download

	Fair- Rite Products Corp.			One Commercial Row, Wallkill, New York 12589-0288					
888-324-7748		845-895-2055		Fax: 845-895-2629					www.fair- rite.com