imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Fair-Rite Products Corp.

Your Signal Solution*

SM Beads (Common- Mode)

Certificate of Compliance Material Declaration

Part Number: 2744041447

44 COMMON MODE SM BEAD

Explanation of Part Numbers:

Digits 1 & 2 = Product Class

- Digits 3 & 4 = Material Grade

 $- \Box$ Last digit 6 = Bulk Packed 7 = Taped and Reeled

Surface mount common- mode beads are available from Fair- Rite in several materials and sizes. The common- mode bead provides a common magnetic path for the flux generated by the current to the load and the return current from the load. The current compensation results in zero magnetic flux in the bead.

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

 \Box 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.

 \Box 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.

Packaging options:

 \Box – 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".SM Beads on 12 mm tape width are supplied taped and reeled per EIA 481 and IEC 60286-3 standards.

 \Box – 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.

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

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

<u>Weight:</u> 0.3 (g)

Dim	mm	mm tol	nominal i	nch i	inch misc.	Reel Informa	Reel Information				
А	2.85	±0.20	0.112		_	Tape Width	Pitch	Parts 7"	Parts 13"	Parts 14	
В	5.6	±0.20	0.22		_	mm	mm	Reel	Reel	Reel	
С	5	-0.60	0.185			12	8		2400		
D	1.35	±0.50	0.053		_						
E	2.54	±0.25	0.1	_	_						
Land I	Patterns	S									
V	1	W	Х	Y	Z						
1.00		04.00	1.80	3.00	2.54						
(0.040	")	(0.158")	(0.071")	(0.118")	(0.100")	Figure 1		Flat TCW	P P P P P P P P P P P P P P P P P P P	2	

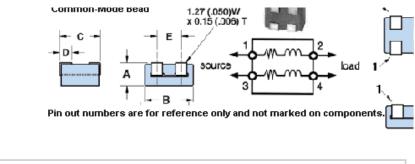
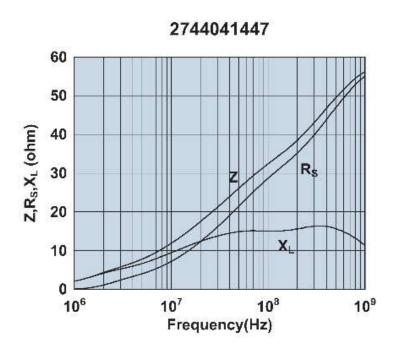


Chart Legend
+ Test frequencyTypical Impedance (Ω)10 MHz1225 MHz⁺20100 MHz⁺33250 MHz41

250 MHz		ŀ			
300 MHz					
Electrical Properties					
Max	1 1				
$Rdc(m\Omega)$	1.1				

SM Beads are controlled for impedance limits only. Minimum impedance values are specified for the + marked frequencies. The minimum impedance is typically the listed value less 20%. SM Beads in 44 materials are measured for impedance on the 4193 Vector Impedance Analyzer. The 52 SM Beads are tested for impedance on the 4291A RF Impedance Analyzer.

 \Box The maximum current rating for these SM Beads is 5 amps.



Impedance, reactance, and resistance vs. frequency.