

# DATA SHEET

**EMI-suppression beads**  
**EMI-suppression products**

Supersedes data of September 2004

2008 Sep 01

EMI-suppression products

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EMI-SUPPRESSION BEADS

Colour marking: 4S2 has a flash of yellow paint.

Note

1. Typical values at 100 MHz,  $|Z|_{\min}$  is -20%.

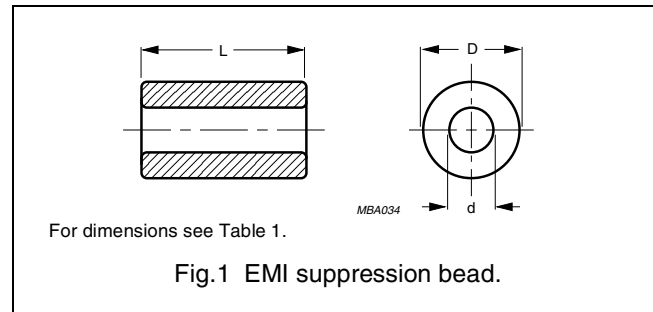


Table 1 Grades, parameters and type numbers; see Fig.1

GRADE	$ Z_{typ}  (\Omega)^{(1)}$							DIMENSIONS (mm)			TYPE NUMBER
	at frequency (MHz)							D	d	L	
	1	3	10	25	30	100	300				
3S1	24	48	49	-	39	33	29	3 ±0.1	0.7 +0.1	4 ±0.2	BD3/0.7/4-3S1 <sup>sup</sup>
	41	90	91	-	74	63	55	3 ±0.1	1 +0.1/-0.05	10 ±0.3	BD3/1/10-3S1 <sup>sup</sup>
	34	65	66	-	53	45	40	5.1 -0.3	0.75 +0.1	4 ±0.2	BD5.1/0.8/4-3S1 <sup>sup</sup>
	88	156	160	-	113	88	63	5.1 -0.3	0.75 +0.1	10 ±0.3	BD5.1/0.8/10-3S1
	16	28	40	-	33	28	25	5.1 -0.3	1.5 +0.15	4 ±0.2	BD5.1/1.5/4-3S1
	50	90	100	-	80	69	60	5.1 -0.3	1.5 +0.15	10 ±0.3	BD5.1/1.5/10-3S1 <sup>sup</sup>
	13	23	30	-	25	21	19	5.1 -0.3	2 +0.2	4 ±0.2	BD5.1/2/4-3S1
	36	64	76	-	61	53	46	5.1 -0.3	2 +0.2	10 ±0.3	BD5.1/2/10-3S1 <sup>sup</sup>
4S2	7	20	35	-	54	69	76	1.9 +0.2	0.8 +0.2	9.75 -0.2	BD1.9/0.8/9.8-4S2 <sup>sup</sup>
	3	10	28	-	40	63	68	3 ±0.1	0.7 +0.1	4 ±0.2	BD3/0.7/4-4S2
	4	11	23	-	31	48	54	3 ±0.1	1 +0.1/-0.05	4 ±0.2	BD3/1/4-4S2
	9	29	54	-	76	119	134	3 ±0.1	1 +0.1/-0.05	10 ±0.3	BD3/1/10-4S2
	-	-	-	27	-	40	-	3.5 ±0.2	1.3 ±0.1	3.25 ±0.25	BD3.5/1.3/3.3-4S2
	-	-	-	47	-	60	-	3.5 ±0.2	1.3 ±0.1	6 ±0.25	BD3.5/1.3/6-4S2
	-	-	-	89	-	125	-	3.5 ±0.2	1.3 ±0.1	12.7 ±0.35	BD3.5/1.3/13-4S2
	6	19	38	-	55	85	96	5.1 -0.3	0.75 +0.1	4 ±0.2	BD5.1/0.8/4-4S2
	15	50	94	-	138	213	238	5.1 -0.3	0.75 +0.1	10 ±0.3	BD5.1/0.8/10-4S2 <sup>sup</sup>
	4	13	25	-	34	51	59	5.1 -0.3	1.5 +0.15	4 ±0.2	BD5.1/1.5/4-4S2
	9	31	56	-	85	130	145	5.1 -0.3	1.5 +0.15	10 ±0.3	BD5.1/1.5/10-4S2
	3	10	19	-	25	40	45	5.1 -0.3	2 +0.2	4 ±0.2	BD5.1/2/4-4S2
	-	-	34	-	-	78	-	5.1 -0.3	2 +0.2	7.1 ±0.2	BD5.1/2/7.1-4S2
	8	19	38	-	64	100	111	5.1 -0.3	2 +0.2	10 ±0.3	BD5.1/2/10-4S2 <sup>sup</sup>
	-	-	-	135	-	200	-	6.35 ±0.15	2.95 +0.45	25.4 ±0.75	BD6.4/3/25-4S2
	-	-	-	63	-	92	-	7.65 -0.25	2.25 +0.25	7.55 ±0.25	BD7.7/2.3/7.6-4S2
	5	18	34	-	48	71	81	8 ±0.2	1.5 +0.15	4 ±0.2	BD8/1.5/4-4S2
	13	43	88	-	116	181	201	8 ±0.2	1.5 +0.15	10 ±0.3	BD8/1.5/10-4S2
	5	13	25	-	39	61	69	8 ±0.2	2 +0.2	4 ±0.2	BD8/2/4-4S2
	11	35	69	-	96	151	168	8 ±0.2	2 +0.2	10 ±0.3	BD8/2/10-4S2
3	10	19	-	28	43	48	8 ±0.2	3 +0.2	4 ±0.2	BD8/3/4-4S2	
8	25	50	-	69	106	119	8 ±0.2	3 +0.2	10 ±0.3	BD8/3/10-4S2	

## EMI-suppression products

## EMI-suppression beads

## DATA SHEET STATUS DEFINITIONS

DATA SHEET STATUS	PRODUCT STATUS	DEFINITIONS
Preliminary specification	Development	This data sheet contains preliminary data. Ferroxcube reserves the right to make changes at any time without notice in order to improve design and supply the best possible product.
Product specification	Production	This data sheet contains final specifications. Ferroxcube reserves the right to make changes at any time without notice in order to improve design and supply the best possible product.

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<b>Preferred</b>		These products are recommended for use in current designs and are available via our sales channels.
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