

DATA SHEET

EMI-suppression beads **Soft Ferrites**

Product specification
Supersedes data of 1998 Apr 07
File under Ferrite Ceramics, MA01

2000 Apr 20

Soft Ferrites

EMI-suppression beads

EMI-SUPPRESSION BEADS

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

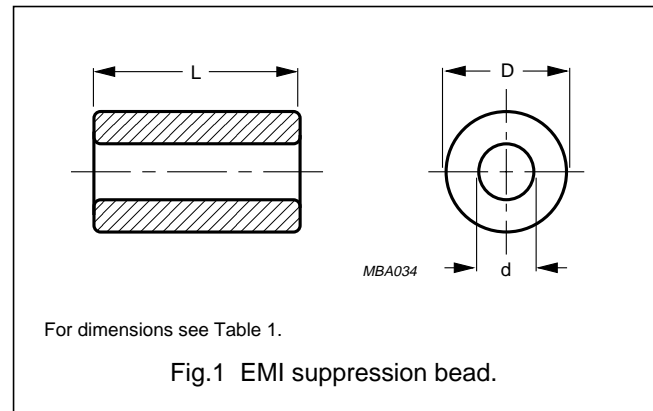


Table 1 Grades, parameters and type numbers; see Fig.1

GRADE	Z _{typ} (Ω) ⁽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}
	18	36	38	–	30	25	23	3 ±0.1	1 +0.1/–0.05	4 ±0.2	BD3/1/4-3S1
	41	90	91	–	74	63	55	3 ±0.1	1 +0.1/–0.05	10 ±0.3	BD3/1/10-3S1 ^{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}
	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}
	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}
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}
	4	11	23	–	31	48	54	3 ±0.1	1 +0.1/–0.05	4 ±0.2	BD3/1/4-4S2
	–	–	–	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
	15	50	94	–	138	213	238	5.1 –0.3	0.75 +0.1	10 ±0.3	BD5.1/0.8/10-4S2 ^{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}
	–	–	–	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	13	25	–	39	61	69	8 ±0.2	2 +0.2	4 ±0.2	BD8/2/4-4S2
	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	

Note

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

Soft Ferrites

EMI-suppression beads




DATA SHEET STATUS DEFINITIONS

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

DISCLAIMER

Life support applications — These products are not designed for use in life support appliances, devices, or systems where malfunction of these products can reasonably be expected to result in personal injury. Philips Components customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Philips Components for any damages resulting from such application.

PRODUCT STATUS DEFINITIONS

STATUS	INDICATION	DEFINITION
Prototype		These are products that have been made as development samples for the purposes of technical evaluation only. The data for these types is provisional and is subject to change.
Design-in		These products are recommended for new designs.
Preferred		These products are recommended for use in current designs and are available via our sales channels.
Support		These products are not recommended for new designs and may not be available through all of our sales channels. Customers are advised to check for availability.