

# DATA SHEET

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

Supersedes data of November 2000

2002 Feb 01

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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%.

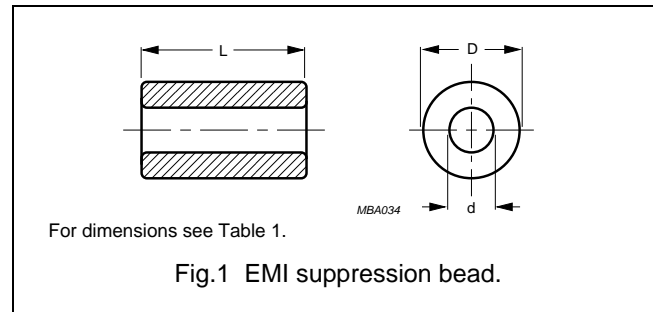


Table 1 Grades, parameters and type numbers; see Fig.1

| 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                    |
|       | 11                         | 38  | 69  | -   | 101 | 156 | 169    | 3 ±0.1          | 0.75 +0.1    | 10 ±0.3      | BD3/0.8/10-4S2                   |
|       | 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

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## DATA SHEET STATUS DEFINITIONS

| DATA SHEET STATUS         | PRODUCT STATUS | DEFINITIONS  |
|---------------------------|----------------|--|
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## PRODUCT STATUS DEFINITIONS

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