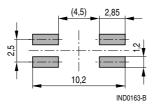


## Layout recommendation



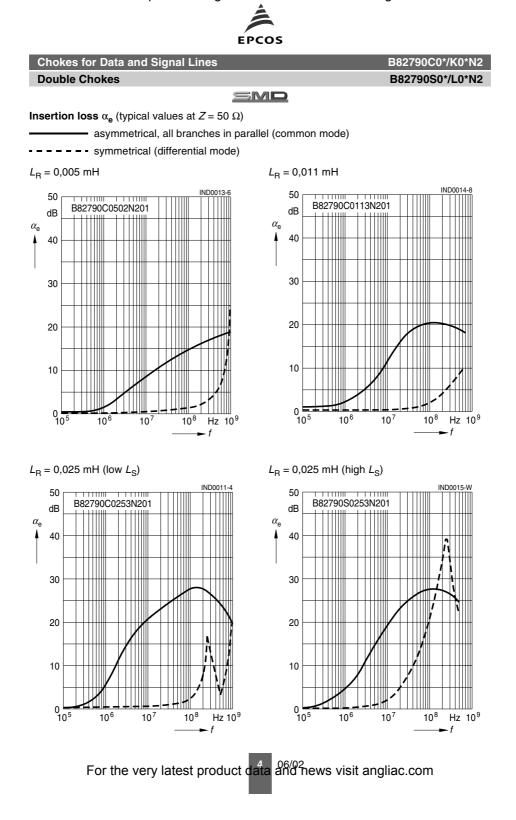
| EPCOS                                  |  |  |  |  |  |
|--|--|--|--|--|--|
| Chokes for Data and Signal Lines       | B82790C0*/K0*N2  |  |  |  |  |
| Double Chokes                          | B82790S0*/L0*N2  |  |  |  |  |
|  | <u>smd</u>   |  |  |  |  |
| Technical data and measuring condition | ons  |  |  |  |  |
| Rated voltage V <sub>R</sub>           | 42 VAC (50/60 Hz)<br>80 VDC  |  |  |  |  |
| Rated current I <sub>R</sub>           | Referred to 50 Hz and 60 °C ambient temperature  |  |  |  |  |
| Rated inductance L <sub>R</sub>        | Measured with HP 4275A<br>at $L \le 1$ mH = 100 kHz, 0,1 mA<br>L > 1 mH = 10 kHz, 0,1 mA<br>(specified per winding)                                    |  |  |  |  |
| Inductance tolerance                   | L ≤ 0,47 mH: ± 30 %<br>L > 0,47 mH: − 30/+ 50 %  |  |  |  |  |
| Inductance decrease $\Delta L/L_0$     | < 10 % at dc magnetic bias with $I_{\rm R}$  |  |  |  |  |
| Stray inductance L <sub>S</sub>        | Measured with HP 4275A.<br>Measuring frequency at $L \le 11 \ \mu\text{H} = 1 \ \text{MHz}$ , 5 mA<br>$L > 11 \ \mu\text{H} = 100 \ \text{kHz}$ , 5 mA |  |  |  |  |
| DC resistance R <sub>typ</sub>         | Typical values, measured at 20 °C ambient temperature  |  |  |  |  |
| Solderability                          | $(215 \pm 3)$ °C, $(3 \pm 0,3)$ s<br>wetting of soldering area $\ge 95$ %<br>in accordance with IEC 60068-2-58   |  |  |  |  |
| Climatic category                      | 40/125/56 (- 40 °C/+ 125 °C/56 days damp heat test)<br>in accordance with IEC 60068-1  |  |  |  |  |
| Weight                                 | Approx. 0,3 g  |  |  |  |  |

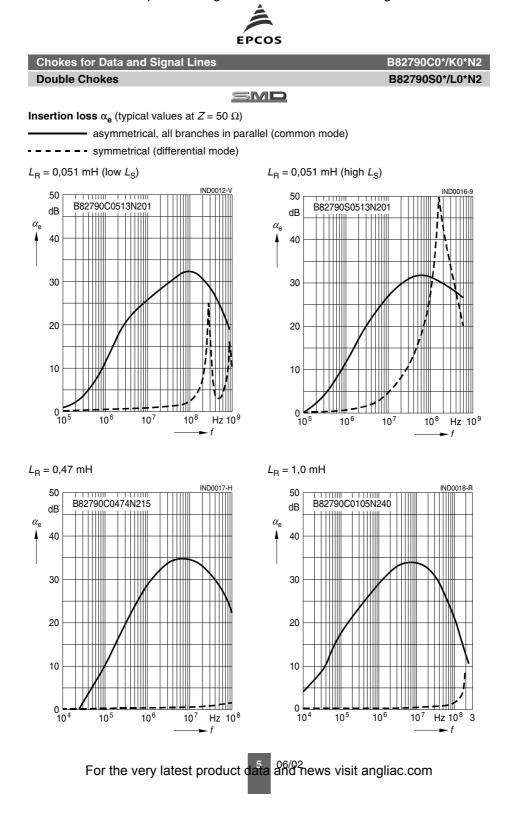
## Characteristics and ordering codes

| L <sub>R</sub><br>mH | L <sub>S, typ</sub><br>nH | I <sub>R</sub><br>mA | R <sub>typ</sub><br>mΩ | V <sub>T</sub><br>VDC, 2 s | Ordering code <sup>1)</sup> |
|----------------------|---------------------------|----------------------|------------------------|----------------------------|-----------------------------|
| 0,005                | 50                        | 1000                 | 100                    | 250                        | B82790C0502N201             |
| 0,011                | 50                        | 500                  | 120                    | 250                        | B82790C0113N201             |
| 0,025                | 150                       | 500                  | 130                    | 250                        | B82790C0253N201             |
| 0,025                | 1500                      | 500                  | 130                    | 250                        | B82790S0253N201             |
| 0,051                | 200                       | 500                  | 160                    | 250                        | B82790C0513N201             |
| 0,051                | 2000                      | 500                  | 160                    | 250                        | B82790S0513N201             |
| 0,470                | 200                       | 500                  | 200                    | 750                        | B82790C0474N215             |
| 1,0                  | 250                       | 500                  | 200                    | 750                        | B82790C0105N240             |
| 2,2                  | 250                       | 400                  | 400                    | 750                        | B82790C0225N265             |
| 4,7                  | 300                       | 200                  | 550                    | 750                        | B82790C0475N265             |

1) Special types for conductive adhesion and ambient temperatures of up to 150 °C upon request.

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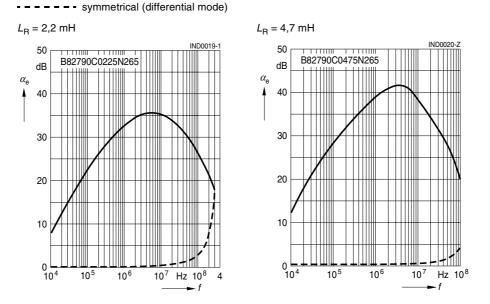




| EPCOS                            |                 |
|----------------------------------|-----------------|
| Chokes for Data and Signal Lines | B82790C0*/K0*N2 |
| Double Chokes                    | B82790S0*/L0*N2 |
|                                  |                 |

**Insertion loss**  $\alpha_e$  (typical values at Z = 50  $\Omega$ )

asymmetrical, all branches in parallel (common mode)



## 

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