

## SEMICONDUCTOR NOISE PROTECTION CHOKE

# STANDARD CORE DIMENSIONS & SPECIFICATIONS

### NB Series Bead

Part No.	Finished Core(mm) ①			$L_{eff}$ ② (mm)	$A_{eff}$ ③ (mm <sup>2</sup> )	$2\phi_m$ ④ ( $\mu Wb$ )	$A_L$ ⑤ ( $\mu H$ )	Insulating cover
	OD	ID	HT					
NB-03A-N	4.0	1.6	4.5	7.7	1.2	0.9	3.0	blue class resin
NB-03S-N	4.0	1.6	6.0	7.7	1.8	1.3	5.0	
NB-04S-N	5.0	1.6	6.0	9.1	3.6	2.7	9.0	
NB-04B-N	5.0	1.6	7.5	9.1	4.8	3.6	12.0	
NB-045A-N	6.5	2.4	6.0	13.3	0.6	0.6	0.86	

Notes:

- 1) The finished core dimensions shows a limiting ones.
- 2) Nominal values of magnetic path length.
- 3) Nominal values of cross-section area.
- 4) Minimum value at 50kHz, 80A/m, RT(~25°C).
- 5) Normalized inductance, Minimum value at kHz with the oscillation voltage of 1V, RT(~25°C).
- 6) Minimum value at 50kHz with the oscillating voltage of 1V, 1 turn, RT(~25°C).

### NK Series Spike Killer

Part No.	Finished Core(mm) ①			$L_{eff}$ ② (mm)	$A_{eff}$ ③ (mm <sup>2</sup> )	$V_{eff}$ ④ (mm <sup>3</sup> )	$W_a$ ⑤ (mm <sup>2</sup> )	$A_L$ ⑥ ( $\mu H$ )	$2\phi_m$ ⑦ ( $\mu Wb$ )
	OD	ID	HT						
NK-09S-N	10.7	5.5	6.3	25.0	3.5	88	24	1.8	3.9
NK-10S-N	11.9	5.8	6.3	27.0	4.7	129	26	2.2	5.3
NK-12A-N	14.0	6.6	4.8	31.0	4.7	147	34	1.9	5.2
NK-12S-N	14.0	6.6	6.3	31.0	7.0	221	34	2.8	7.9
NK-14S-N	15.9	6.8	6.5	34.3	10.0	350	36	3.7	11.2
NK-15A-N	16.7	10.5	6.3	42.2	5.3	223	87	1.6	5.9
NK-15S-N	16.9	8.6	6.5	38.7	8.8	345	59	2.8	9.8
NK-18S-N	19.8	10.4	6.4	46.5	10.5	496	85	2.8	11.8
NK-21S-N	22.8	12.4	6.3	54.2	12.3	675	121	2.8	13.8

Note:

- 1) The finished core dimensions shows a nominal ones. Please consult sales department for tolerance.
- 2) Nominal values of magnetic path length.
- 3) Nominal values of cross-section area.
- 4) Nominal values of volume.
- 5) Nominal values of window area.
- 6) Normalized inductance, Minimum value at kHz with the oscillation voltage of 1V, RT(~25°C).
- 7) Total flux with its tolerances of  $\pm 15\%$ . All values are measured at 50kHz, 80A/m, RT(~25°C).