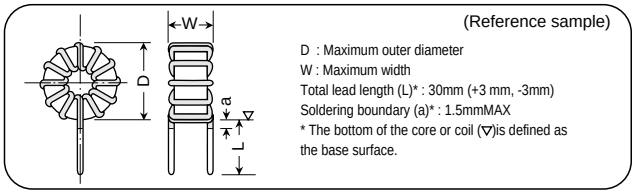
NIPPON CHEMI-CON

AMORPHOUS CHOKE COILS

TM Series



◆MAJOR USES

- ●For switching mode power surpplies
- ●For DC-DC converter
- ●For normal mode line filter

◆FEATURES

- ●Great reduction of core loss enabling low temperature rise at high frequency
- ●Miniaturization and reduction of DC resistance
- ●Low leakage flux due to gap-less structure
- ●Excellent frequency and temperature features

◆GENERAL SPECIFICATION

	P/N	Rated current A	Inductance *1 0 [A] μH	Inductance *1 Rating μH	D.C.R. mΩ (max)	Winding *2 mmϕ×lines-turns	Outside dimension D mm	Outside dimension W mm
	TM01201NS	1	260	200	120	0.5x1p - 51T	16.0	11.0
	TM02800NS	2	113	80	60	0.6x1p - 35T	16.5	11.0
	TM03270NS	3	40	27	20	0.8x1p - 20T	16.5	11.5
	TM05100NS	5	14	10	9	1.0x1p - 12T	17.0	11.5
●	TM01201N1	1	290	200	150	0.5x1p - 49T	18.0	10.5
●	TM01251N1	1	400	250	170	0.5x1p - 58T	18.0	11.0
●	TM01301N1	1	430	300	170	0.5x1p - 60T	18.0	11.0
●	TM02101N1	2	160	100	70	0.6x1p - 37T	18.0	10.5
●	TM03400N1	3	69	40	27	0.8x1p - 24T	18.5	11.0
●	TM04250N1	4	43	25	18	0.9x1p - 19T	19.0	11.5
●	TM05150N1	5	23	15	11	1.0x1p - 14T	19.5	11.5
●	TM01401N2	1	580	400	210	0.5x1p - 70T	19.5	11.0
●	TM01501N2	1	770	500	230	0.5x1p - 81T	20.0	11.0
●	TM02151N2	2	240	150	89	0.6x1p -45 T	20.0	10.5
●	TM02201N2	2	360	200	110	0.6x1p -55 T	20.0	11.0
●	TM02211N2	2	400	210	110	0.6x1p -58 T	20.5	11.5
●	TM03700N2	3	110	70	36	0.8x1p -31 T	20.5	11.5
●	TM04450N2	4	74	45	24	0.9x1p -25 T	21.0	11.5
●	TM04500N2	4	92	50	24	0.9x1p -28 T	21.0	11.5
●	TM05300N2	5	52	30	17	1.0x1p - 21T	21.0	12.0
●	TM06200N2	6	34	20	11	0.8x2p -17 T	21.0	12.0
	TM01132N5	1	2100	1300	400	0.5x1p -127 T	26.0	12.0
	TM03800N5	3	120	80	41	0.8x1p - 30T	26.5	11.0
	TM03171N5	3	290	170	59	0.8x1p -48 T	26.5	12.0
	TM05750N5	5	150	75	27	1.0x1p - 35T	27.0	13.5
	TM06450N5	6	85	45	18	0.8x2p - 26 T	27.0	13.0
	TM08250N5	8	45	25	11	0.9x2p - 19T	27.0	13.5
	TM10160N5	10	28	16	7	1.1x2p - 15T	28.0	14.0
	TM15080N5	15	15	8	4	1.1x3p - 11T	27.5	14.5
●	TM02351NU	2	650	350	135	0.6x1p -52 T	22.0	16.5
●	TM03131NU	3	217	130	44	0.8x1p - 30T	22.5	17.0
●	TM05500NU	5	87	50	19	1.0x1p - 19T	22.5	16.5
●	TM08170NU	8	29	17	7	0.9x2p - 11T	22.5	16.5

	P/N	Rated current A	Inductance *1 0 [A] μH	Inductance *1 Rating μH	D.C.R. mΩ (max)	Winding *2 mmϕ×lines-turns	Outside dimension D mm	Outside dimension W mm
●	TM02621NP	2	1200	620	150	0.7x1p - 76 T	24.5	16.5
●	TM03291NP	3	550	290	76	0.8x1p - 51 T	24.5	16.0
●	TM04161NP	4	320	160	46	0.9x1p - 39 T	25.0	16.5
●	TM05101NP	5	190	100	29	1.0x1p - 30 T	25.0	16.5
●	TM06700NP	6	130	70	19	0.8x2p - 25 T	24.5	16.0
●	TM08400NP	8	77	40	12	0.9x2p - 19 T	25.0	16.5
●	TM10270NP	10	54	27	7	1.1x2p - 16 T	26.0	17.0
●	TM15120NP	15	26	12	4	1.1x3p - 11 T	26.0	17.5
◎	TM02701N6	2	1200	700	150	0.7x1p - 73 T	27.5	16.5
◎	TM03181N6	3	260	180	50	0.8x1p - 33 T	27.5	15.0
◎	TM03351N6	3	640	350	82	0.8x1p - 53 T	27.5	16.5
◎	TM04101N6	4	140	100	33	0.9x1p - 25 T	27.5	16.0
◎	TM04201N6	4	370	200	48	0.9x1p - 40 T	28.0	16.5
◎	TM05131N6	5	250	130	34	1.0x1p - 33 T	28.5	17.0
◎	TM06850N6	6	170	85	22	0.8x2p - 27 T	28.0	17.0
◎	TM08450N6	8	83	45	13	0.9x2p - 19 T	28.0	17.0
◎	TM10300N6	10	51	30	7	1.1x2p - 15 T	29.0	17.5
◎	TM15160N6	15	33	16	5	1.1x3p - 12 T	28.5	18.5
◎	TM20100N6	20	23	10	4	1.3x3p - 10 T	29.5	19.0
◎	TM02901N7	2	1500	900	240	0.6x1p - 73 T	32.0	15.5
◎	TM02112N7	2	1800	1100	190	0.7x1p - 85 T	32.5	16.5
◎	TM03481N7	3	820	480	94	0.8x1p - 57 T	32.5	16.5
◎	TM05141N7	5	240	140	34	1.0x1p - 31 T	33.0	16.0
◎	TM05211N7	5	390	210	42	1.0x1p - 39 T	33.0	17.5
	TM10300N7	10	45	30	7	1.6x1p - 13 T	35.5	18.5
◎	TM10500N7	10	100	50	11	1.1x2p - 20 T	34.0	18.0
◎	TM15260N7	15	57	26	6	1.1x3p - 15 T	33.5	18.0
	TM25100N7	25	25	10	3	1.6x2p - 10 T	35.5	19.0
◎	TM03501N9	3	840	500	120	0.8x1p - 63 T	38.5	18.5
◎	TM05281N9	5	530	280	61	1.0x1p - 50 T	39.5	19.0
◎	TM05301N9	5	550	300	62	1.0x1p - 51 T	39.5	19.0
	TM10600N9	10	110	60	12	1.6x1p - 23 T	41.5	20.0
◎	TM10800N9	10	170	80	15	1.1x2p - 28 T	41.0	20.5
◎	TM15400N9	15	93	40	8	1.1x3p - 21 T	39.5	20.0
◎	TM20130N9	20	21	13	4	1.3x3p - 10 T	41.0	19.5
◎	TM20200N9	20	41	20	5	1.3x3p - 14 T	40.5	20.5

*1 Inductance measurement condition : 200kHz (TM01201NS, TM02800NS, TM03270NS, TM05100NS : 100kHz)
Rated inductance tolerance : ±25%, the inductance at current 0[A] indicates the reference value.

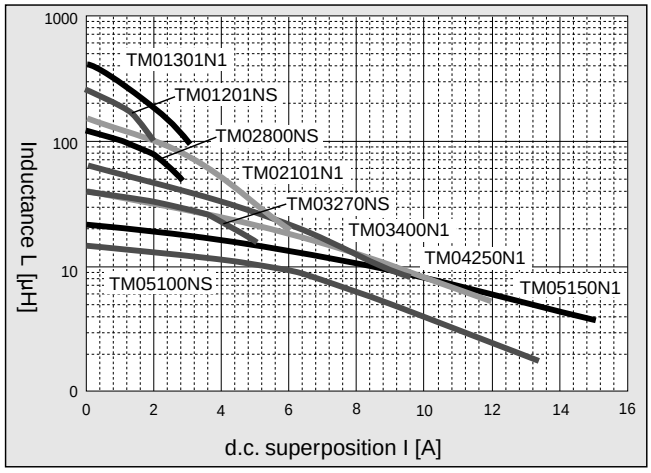
*2 The number of turns indicates the reference value. The specification of the inductance takes precedence over that of the number of turns.
The coils of the lying type are also provided for all the items listed in the table above. For a coil of the type, the final symbol H in the part number should be changed to E in the table (e.g. TM05211N7E).
The items preceded by symbol ◎ include two types, or the depth type with pedestal and the bed type with pedestal. To order the item of the depth or bed type, add D or B at the end of the item of the item name respectively, as shown in the examples below:(TM05211N7D for the depth type with pedestal)
(TM05211N7B for the bed type with pedestal)
*Order the auxiliary pins separately if they are required for the pedestal.

CAT. No. E1008D

TM Series

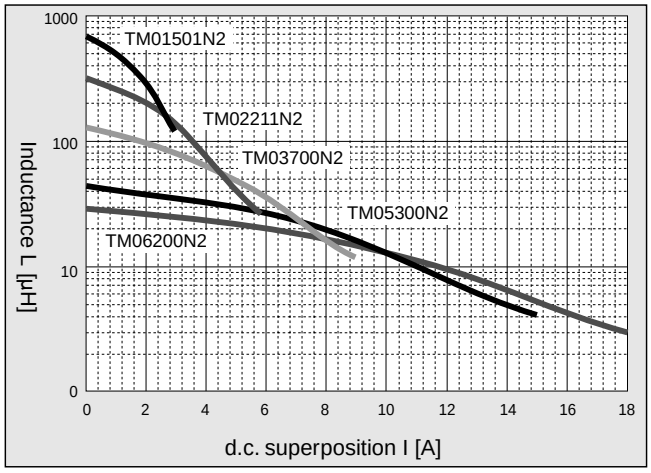
◆dc-current pre-loadability (1) <Example>

●Core : T100805N (Frequency : 100kHz), T130805N (Frequency : 200kHz)



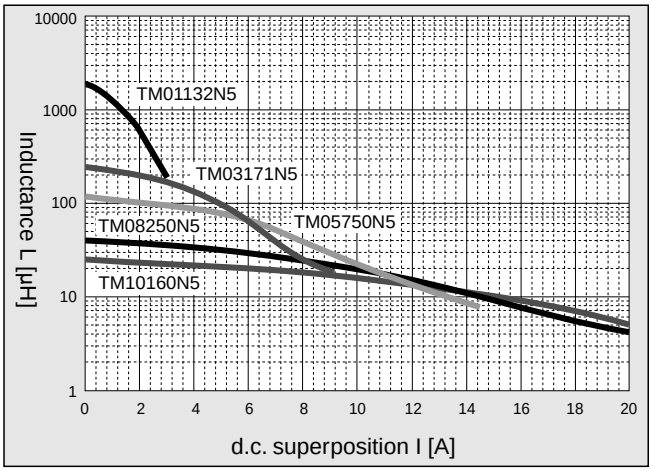
◆dc-current pre-loadability (2) <Example>

●Core : T150905N, Frequency : 200kHz



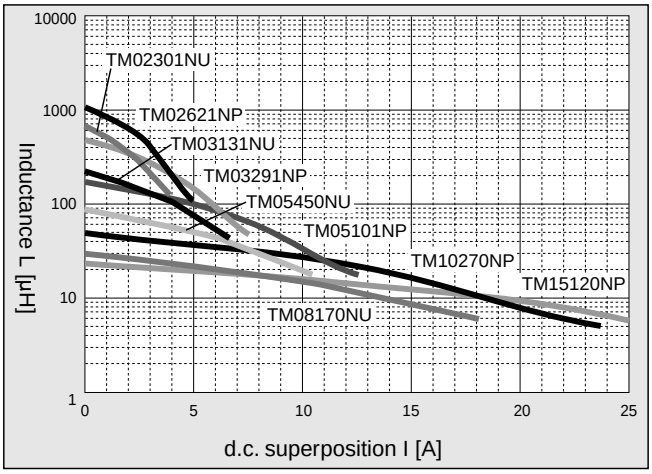
◆dc-current pre-loadability (3) <Example>

●Core : T211205N, Frequency : 200kHz



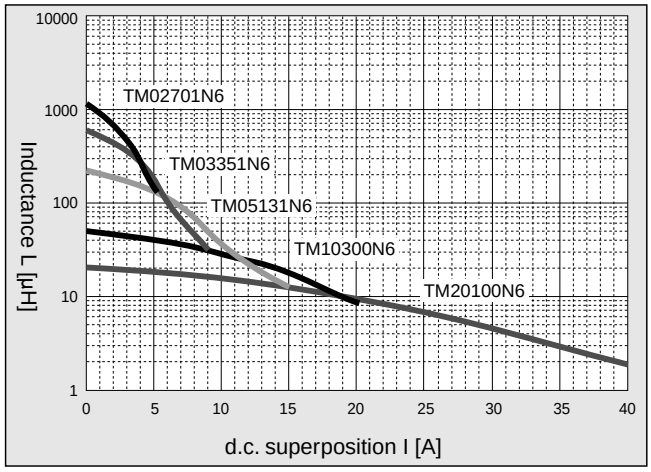
◆dc-current pre-loadability (4) <Example>

●Core : T160910N, T191210N, Frequency : 200kHz



◆dc-current pre-loadability (5) <Example>

●Core : T221310N, Frequency : 200kHz



◆dc-current pre-loadability (6) <Example>

●Core : T271510N, Frequency : 200kHz