镍锌牌号对照（依 μi） NIZN CROSS-REFERENCE BY INITIAL PERMEABILITY

高频稳定（低 μi、高 Q） HIGH-FREQUENCY STABLE

TAK 牌号 Grade	μi	Bs mT	tanδ/μi ×10⁻⁶	YENGTAT	HUOHYOW	TDK	TDG	DMEGC	ACME	FAIR-RITE	FERROXCUBE	LAIRD	WÜRTH
V4F1	10	150	600	T4F	T5F	GT7				68 (16)			
M5E1	15	170	400	NE5K2	T5N		TN2D		L6	68 (16)	4E1 (15)		
V2F1	30	310	160	LF3	H11Y	GT5			L3	67 (40)	4E2 (25)		
M9A	50	340	100	LFQ6	TQ4		TN6D	DN5H	L4	67 (40)	4D2 (60)		
M61	100	340	80	R5K	TQ10	GT3 K1 (80)		DN10H	L5	61 (125)		HF (100)	
M61H	100	420	50	L1HF			TN12B						
M63	180	365	50							61 (125)	4C65 (125)	25 (125)	
Q1C1	250	335	35	LF25	HQ1-F	GT2				52 (250)	4B1 (250)		

高磁通耐焊接 HIGH-FLUX / SOLDER-RESISTANT

TAK 牌号 Grade	μi	Bs mT	tanδ/μi ×10⁻⁶	YENGTAT	HUOHYOW	TDK	TDG	DMEGC	ACME	FAIR-RITE	FERROXCUBE	LAIRD	WÜRTH
DL6	300	440	20	E4K	TB48	L11H	TN35B	DN30B	B30				
DL3	350	350	15	E4D	LGB-F				D1C	51 (350)			
DL5	400	420	15	E4S	T12S	L2H	TN41H	DN40B DN50B (500)	A31/B40				
DL5H	530	400	35	E5S	TL70H		TN39H	DN50B DN65H (650)	B60				
DL4	600	350	12	E5D	H7SH				D27				
G5A	800	400	10		TB40	L7H K10 (800) K8 (860)	TN80L	DN80H (800) DN85H (850)	K081	43 (800)	4A11 (850)	28 (850)	3W800 (800)
G5B	1000	390	15					DN100H (1000)					

以 TAK 材料之初始磁导率 μi 为对照基准（升序排列），并列饱和磁通密度 Bs 与相对损耗因子 tanδ/μi。竞品栏为依 μi 与应用领域列出之“初步筛选候选”，非可直接互换（drop-in）之等效品；国际厂商牌号后括号为其规格书之标称 μi。各厂测量条件不一（Bs 测量磁场尤其互异，故不逐格并列），实际 μi/Bs/损耗以各厂规格书为准；选用前须在相同磁芯外形、绕组、频率、磁通密度、温度与直流偏磁条件下复测验证。空格 = 该厂无对应型号；应用领域见各材质页。

Anchored on TAK initial permeability μi (ascending), with Bs and relative loss factor tanδ/μi alongside. Competitor cells give screening candidates by μi and application — not drop-in equivalents; for international makers the figure in parentheses is the nominal μi from that maker's datasheet. Measuring conditions differ between makers (Bs measuring fields especially, hence Bs is not tabulated per cell) — actual μi/Bs/loss are per each datasheet, and any substitution must be re-verified in the same core shape, winding, frequency, flux density, temperature and DC bias. Blank = no counterpart from that maker; applications are given on each grade page.

镍锌牌号对照（依 μi）（续） NIZN CROSS-REFERENCE BY INITIAL PERMEABILITY

鐵研 TAK

EMI 抑制 / 低温度系数 EMI SUPPRESSION / LOW-TC

TAK 牌号 Grade	μi	Bs mT	tanδ/μi ×10⁻⁶	YENGTAT	HUOHYOW	TDK	TDG	DMEGC	ACME	FAIR-RITE	FERROXCUBE	LAIRD	WÜRTH
SL50	500	350	18			L6N	TN50D	DN50B (500) DN65H (650)	F52/A50	44 (500)			
L43	800	350	20	E5H	TS80		TN90H	DN80H	D28	43 (800)	4A11 (850)	28 (850)	3W800 (800)
SL80	800	350	15			K10 (800)		DN80H (800)	F80				
L6A	1200	320	15	E6H	TL12D		TN120L		K12/D35		4A15 (1200)		
L8A	1600	300	15	E7	H6LS	L8F HF70 (1500)	TN150P	DN150H	K151/D37			38 (1700)	
L22A	2200	270	20	E10H	T25S	M13 (2300)	TN200B	DN200 DN200L (2000)	K20/D40			26 (2000) 33 (2300)	
L28A	2800	250	25			M13 (2300)			K25				

通用型镍镁锌 / 镁锌 GENERAL NI-MG-ZN / MG-ZN

TAK 牌号 Grade	μi	Bs mT	tanδ/μi ×10⁻⁶	YENGTAT	HUOHYOW	TDK	TDG	DMEGC	ACME	FAIR-RITE	FERROXCUBE	LAIRD	WÜRTH
MF1	180	350	55	G2					H3B				
MG2	300	300	80	LF21/MG	T4N				H4				
MGB1	350	380	15	E4DS	T8SH		TN40H	DN35H					
MF3	350	330	20	LF21	LGB-F				H4	51 (350)			
MF2	800	270	25	E5			TN80G		M80				

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