



**特征**  
FEATURES

铁6.5%硅合金具有分布式气隙  
高饱和磁通密度  
出色的直流偏置特性  
损耗比铁粉芯更小  
良好的温度稳定性

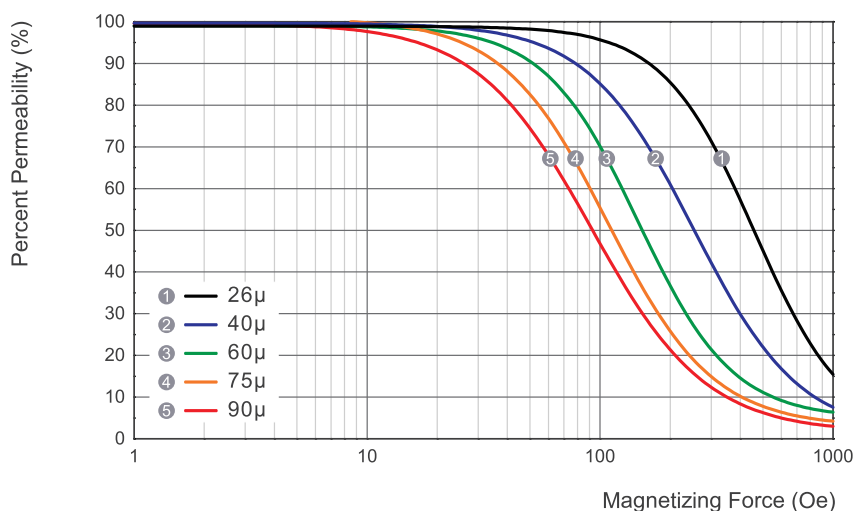
6.5% silicon iron alloy with distributed air gap  
High saturation flux density  
Excellent DC Bias performance  
Lower loss than iron core  
Good temperature stabilization

**应用**  
APPLICATIONS

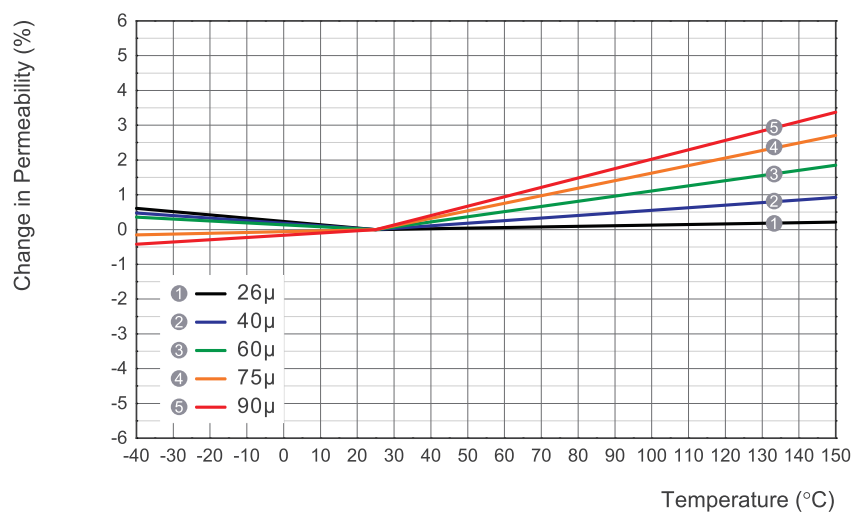
通信电源PFC电感  
服务器电源PFC电感  
UPS电源PFC电感  
开关调节器  
光伏逆变电感  
一般工业电源输出电感  
在线噪音滤波

PFC choke for communication  
PFC choke for server power supply  
PFC choke for UPS  
Switching regulator inductor  
INV Choke for PV Inverter  
Output choke for general industrial power supply  
EMI Filter

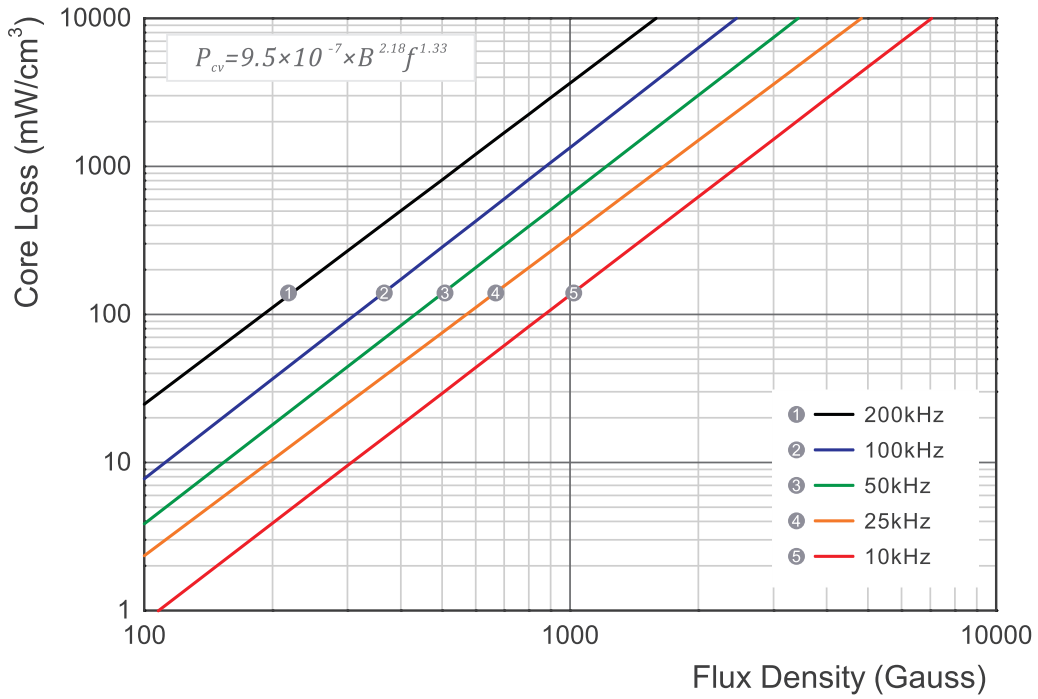
Permeability vs Bias Cures



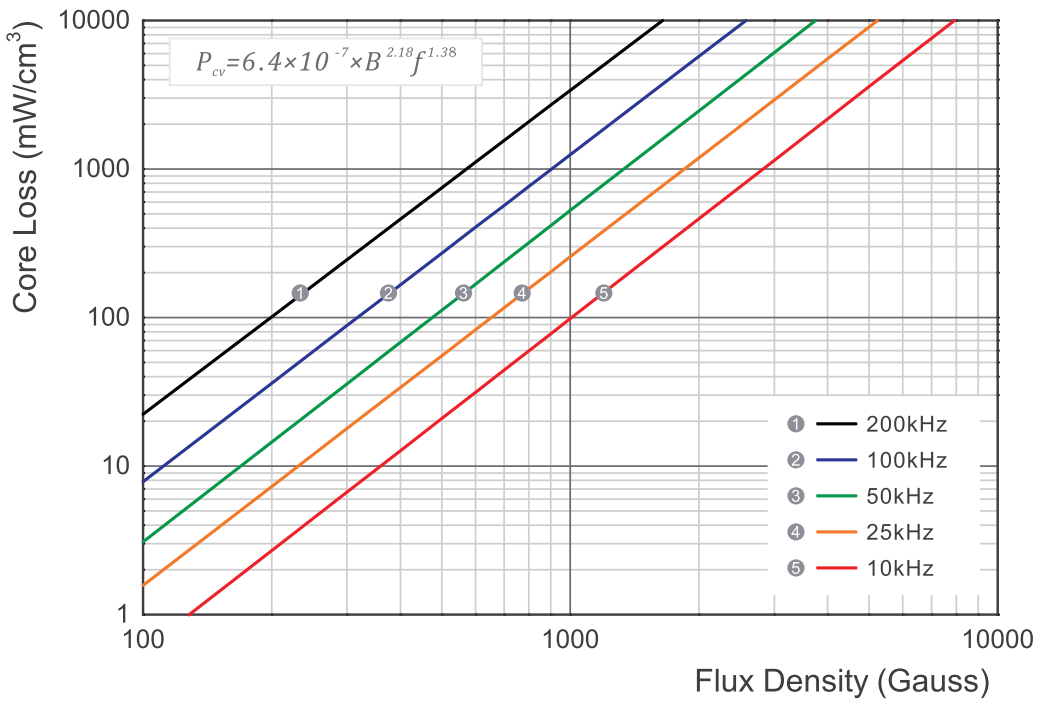
Permeability vs Temperature Curves



Core Loss 26,40μ



Core Loss 60,75,90μ



Part Number	Permeability (μ)	A <sub>L</sub> ±8%	Window Area (Wa)	Cross Section (A)	Magnetic Path Length (ℓ)	Volume (V)	Weight (g)	Dimensions (mm) OD (max)*ID (min)*HT (max)		Package Unit (pcs/box)
								Before coating	After coating	
NPF050026	26	12								
NPF050040	40	18								
NPF050060	60	27	75,600 cmil 0.383 cm <sup>2</sup>	0.0173 inch <sup>2</sup> 0.1114 cm <sup>2</sup>	1.229 inch 3.12 cm	0.02172 inch <sup>3</sup> 0.35556 cm <sup>3</sup>	2.5	12.70*7.62*4.75	13.46*6.99*5.51	5500
NPF050075	75	34								
NPF050090	90	40								
NPF065026	26	15								
NPF065040	40	24								
NPF065060	60	35	140,625 cmil 0.713 cm <sup>2</sup>	0.0298 inch <sup>2</sup> 0.192 cm <sup>2</sup>	1.619 inch 4.11 cm	0.0483 inch <sup>3</sup> 0.7891 cm <sup>3</sup>	5.5	16.64*10.16*6.35	17.40*9.53*7.11	2750
NPF065075	75	43								
NPF065090	90	52								
NPF068026	26	19								
NPF068040	40	28.5								
NPF068060	60	43	126,000 cmil 0.638 cm <sup>2</sup>	0.0360 inch <sup>2</sup> 0.232 cm <sup>2</sup>	1.630 inch 4.14 cm	0.05868 inch <sup>3</sup> 0.9605 cm <sup>3</sup>	6.7	17.27*9.65*6.35	18.03*9.02*7.11	2750
NPF068075	75	53								
NPF068090	90	64								
NPF080026	26	14								
NPF080040	40	21								
NPF080060	60	32	225,600 cmil 1.140 cm <sup>2</sup>	0.0350 inch <sup>2</sup> 0.226 cm <sup>2</sup>	2.010 inch 5.09 cm	0.07035 inch <sup>3</sup> 1.151 cm <sup>3</sup>	8.0	20.32*12.70*6.35	21.08*12.07*7.11	810
NPF080075	75	41								
NPF080090	90	49								
NPF090026	26	19								
NPF090040	40	29								
NPF090060	60	43	277,700 cmil 1.410 cm <sup>2</sup>	0.0513 inch <sup>2</sup> 0.331 cm <sup>2</sup>	2.230 inch 5.67 cm	0.11455 inch <sup>3</sup> 1.877 cm <sup>3</sup>	13.1	22.86*13.97*7.62	23.62*13.39*8.38	810
NPF090075	75	54								
NPF090090	90	65								
NPF092026	26	22								
NPF092040	40	34								
NPF092060	60	51	293,800 cmil 1.490 cm <sup>2</sup>	0.0610 inch <sup>2</sup> 0.388 cm <sup>2</sup>	2.320 inch 5.88 cm	0.1415 inch <sup>3</sup> 2.2814 cm <sup>3</sup>	16.0	23.57*14.40*8.89	24.28*13.77*9.70	729
NPF092075	75	63								
NPF092090	90	76								
NPF106026	26	32								
NPF106040	40	50								
NPF106060	60	75	308,000 cmil 1.560 cm <sup>2</sup>	0.1014 inch <sup>2</sup> 0.654 cm <sup>2</sup>	2.500 inch 6.35 cm	0.2536 inch <sup>3</sup> 4.154 cm <sup>3</sup>	29.0	26.92*14.73*11.18	27.70*14.10*11.99	448
NPF106075	75	94								
NPF106090	90	113								
NPF107026	26	46								
NPF107040	40	70								
NPF107060	60	105	240,706 cmil 1.220 cm <sup>2</sup>	0.1390 inch <sup>2</sup> 0.897 cm <sup>2</sup>	2.528 inch 6.42 cm	0.3514 inch <sup>3</sup> 5.758 cm <sup>3</sup>	40.0	28.25*13.10*12.05	29.05*12.47*13.00	448
NPF107075	75	131								
NPF107090	90	158								

# NPF 系列

## NPF SERIES

Part Number	Permeability (μ)	A <sub>±8%</sub>	Window Area (Wa)	Cross Section (A)	Magnetic Path Length (ℓ)	Volume (V)	Weight (g)	Dimensions (mm) OD (max) * ID (min) * HT (max)		Package Unit (pcs/box)
								Before coating	After coating	
NPF130026	26	28								
NPF130040	40	41								
NPF130060	60	61	577,600 cmil 2.930 cm <sup>2</sup>	0.1042 inch <sup>2</sup> 0.672 cm <sup>2</sup>	3.210 inch 8.15 cm	0.3354 inch <sup>3</sup> 5.4768 cm <sup>3</sup>	38.0	33.02*19.94*10.67	33.83*19.30*11.61	252
NPF130075	75	76								
NPF130090	90	91								
NPF131026	26	36								
NPF131040	40	55								
NPF131060	60	83	465,628 cmil 2.360 cm <sup>2</sup>	0.1309 inch <sup>2</sup> 0.8443 cm <sup>2</sup>	3.074 inch 7.809 cm	0.4193 inch <sup>3</sup> 6.871 cm <sup>3</sup>	49.1	33.27*18.00*11.52	34.08*17.36*12.50	252
NPF131075	75	104								
NPF131090	90	125								
NPF135026	26	16								
NPF135040	40	25								
NPF135060	60	38	788,500 cmil 4.010 cm <sup>2</sup>	0.0704 inch <sup>2</sup> 0.454 cm <sup>2</sup>	3.530 inch 8.950 cm	0.2485 inch <sup>3</sup> 4.0633 cm <sup>3</sup>	28.3	34.29*23.37*8.89	35.20*22.60*9.83	288
NPF135075	75	47								
NPF135090	90	57								
NPF141026	26	24								
NPF141040	40	37								
NPF141060	60	56	719,100 cmil 3.629 cm <sup>2</sup>	0.1051 inch <sup>2</sup> 0.678 cm <sup>2</sup>	3.540 inch 8.980 cm	0.3721 inch <sup>3</sup> 6.0884 cm <sup>3</sup>	42.4	35.81*22.35*10.46	36.70*21.50*11.28	252
NPF141075	75	70								
NPF141090	90	84								
NPF157026	26	35								
NPF157040	40	54								
NPF157060	60	81	842,700 cmil 4.270 cm <sup>2</sup>	0.1662 inch <sup>2</sup> 1.072 cm <sup>2</sup>	3.880 inch 9.84 cm	0.6449 inch <sup>3</sup> 10.5485 cm <sup>3</sup>	75.0	39.88*24.13*14.48	40.69*23.32*15.37	150
NPF157075	75	101								
NPF157090	90	121								
NPF158026	26	53								
NPF158040	40	81								
NPF158060	60	122	700,415 cmil 3.550 cm <sup>2</sup>	0.2383 inch <sup>2</sup> 1.5372 cm <sup>2</sup>	3.744 inch 9.51 cm	0.9180 inch <sup>3</sup> 15.043 cm <sup>3</sup>	107.0	40.13*22.08*17.00	40.94*21.27*17.89	125
NPF158075	75	153								
NPF158090	90	183								
NPF184026	26	59								
NPF184040	40	90								
NPF184060	60	135	842,700 cmil 4.270 cm <sup>2</sup>	0.3080 inch <sup>2</sup> 1.990 cm <sup>2</sup>	4.230 inch 10.74 cm	1.303 inch <sup>3</sup> 21.373 cm <sup>3</sup>	149.0	46.74*24.13*18.03	47.63*23.32*18.92	125
NPF184075	75	169								
NPF184090	90	202								
NPF185026	26	37								
NPF185040	40	57								
NPF185060	60	86	1,206,000 cmil 6.110 cm <sup>2</sup>	0.2080 inch <sup>2</sup> 1.340 cm <sup>2</sup>	4.580 inch 11.63 cm	0.9526 inch <sup>3</sup> 15.584 cm <sup>3</sup>	109.0	46.74*28.70*15.24	47.60*27.89*16.13	150
NPF185075	75	107								
NPF185090	90	128								

Part Number	Permeability (μ)	A <sub>v</sub> ±8%	Window Area (Wa)	Cross Section (A)	Magnetic Path Length (ℓ)	Volume (V)	Weight (g)	Dimensions( mm ) OD( max )*ID( min )*HT( max )		Package Unit ( pcs/box )
								Before coating	After coating	
NPF200026	26	32								
NPF200040	40	49								
NPF200060	60	73	1,484,000 cmil 7.50 cm <sup>2</sup>	0.1940 inch <sup>2</sup> 1.251 cm <sup>2</sup>	5.02 inch 12.73 cm	0.9739 inch <sup>3</sup> 15.929 cm <sup>3</sup>	111.0	50.80*31.75*13.46	51.69*30.94*14.35	96
NPF200075	75	91								
NPF200090	90	109								
NPF225026	26	33								
NPF225040	40	50								
NPF225060	60	75	1,871,000 cmil 9.480 cm <sup>2</sup>	0.2240 inch <sup>2</sup> 1.444 cm <sup>2</sup>	5.630 inch 14.3 cm	1.261 inch <sup>3</sup> 20.650 cm <sup>3</sup>	144.0	57.15*35.56*13.97	58.04*34.75*14.86	96
NPF225075	75	94								
NPF225090	90	112								
NPF226026	26	60								
NPF226040	40	92								
NPF226060	60	138	1,014,049 cmil 5.140 cm <sup>2</sup>	0.3550 inch <sup>2</sup> 2.290 cm <sup>2</sup>	4.930 inch 12.5 cm	1.750 inch <sup>3</sup> 28.60 cm <sup>3</sup>	199.0	57.15*26.39*15.24	58.04*25.58*16.13	96
NPF226075	75	172								
NPF226090	90	207								
NPF250026	26	83								
NPF250040	40	128								
NPF250060	60	192	1,525,610 cmil 7.725 cm <sup>2</sup>	0.570 inch <sup>2</sup> 3.675 cm <sup>2</sup>	5.660 inch 14.37 cm	3.223 inch <sup>3</sup> 52.81 cm <sup>3</sup>	375.6	62.00*32.60*25.00	63.09*31.37*26.26	64
NPF250075	75	240								
NPF250090	90	288								
NPF300026	26	30								
NPF300040	40	45								
NPF300060	60	68	3,564,544 cmil 18.060 cm <sup>2</sup>	0.2740 inch <sup>2</sup> 1.770 cm <sup>2</sup>	7.720 inch 19.61 cm	2.122 inch <sup>3</sup> 34.770 cm <sup>3</sup>	242.0	77.80*49.23*12.70	78.94*47.96*13.97	54
NPF300075	75	85								
NPF300090	90	102								
NPF306026	26	37								
NPF306040	40	57								
NPF306060	60	85	3,564,544 cmil 18.060 cm <sup>2</sup>	0.3440 inch <sup>2</sup> 2.219 cm <sup>2</sup>	7.720 inch 19.61 cm	2.656 inch <sup>3</sup> 43.523 cm <sup>3</sup>	303.0	77.80*49.23*15.88	78.94*47.96*17.15	54
NPF306075	75	107								
NPF306090	90	128								
NPF400026	26	40								
NPF400040	40	61.5								
NPF400060	60	92.3	4,818,025 cmil 24.413 cm <sup>2</sup>	0.4606 inch <sup>2</sup> 2.9716 cm <sup>2</sup>	9.555 inch 24.271 cm	4.101 inch <sup>3</sup> 72.122 cm <sup>3</sup>	467.0	101.60*57.15*13.59	102.87*55.75*14.86	24
NPF400075	75	115								
NPF400090	90	139								
NPF401026	26	47.4								
NPF401040	40	72.9								
NPF401060	60	112	4,818,025 cmil 24.413 cm <sup>2</sup>	0.5460 inch <sup>2</sup> 3.5226 cm <sup>2</sup>	9.555 inch 24.271 cm	5.217 inch <sup>3</sup> 84.495 cm <sup>3</sup>	550.0	101.60*57.15*16.51	102.87*55.75*17.78	24
NPF401075	75	137								
NPF401090	90	164								