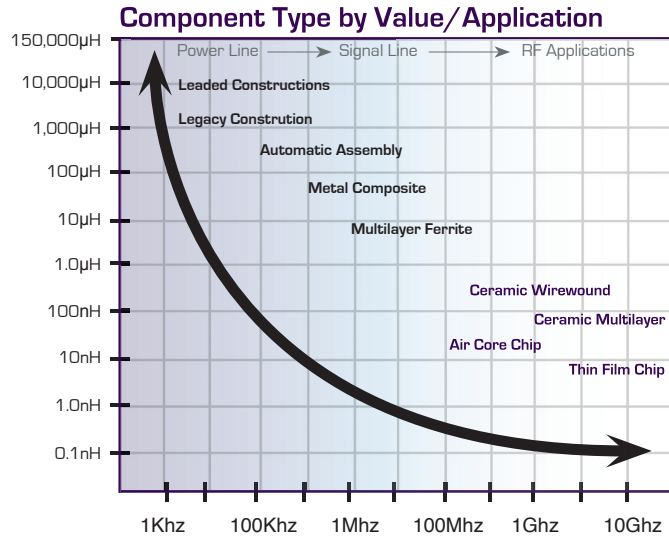


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## Power Inductors

Series	Description	Type	Inductance Range	DCR Range	Irms Max	Isat Max
NPIS_L	Automatic Assembly High Efficiency High Performance	General Purpose	0.8uH ~ 220uH	6mΩ ~ 4.0Ω	7.8A	11A
NPIS_LP		Lower DCR	0.16uH ~ 330uH	9mΩ ~ 4.9Ω	6.2A	7.8A
NPIS_LS		Extended Range	0.68uH ~ 330uH	8mΩ ~ 2.86Ω	6.3A	13.8A
NPIM_L		Improved Performance	240nH ~ 33uH	17mΩ ~ 685mΩ	6.1A	9.1A
NPIM_LP	High Current	Ultra High Performance	240nH ~ 10uH	20mΩ ~ 475mΩ	5.5A	8.0A
NPIS_HA	Automotive Grade	Automotive Grade	0.47µH ~ 470µH	0.01Ω ~ 2.34Ω	6.3A	15A
NFH	Multilayer Construction Reduced Sizes Lower Profiles	General Range	100nH ~ 10uH	70mΩ ~ 0.9Ω	1.0A	1.0A
NFP(S)		High Performance	220nH ~ 10uH	40mΩ ~ 0.5Ω	2.3A	2.5A
NPIM_S	Metal Composite	General Range	0.1µH ~ 150µH	0.55mΩ ~ 510mΩ	72A	92A
NPIM_PA	High Current	Extended Range	0.047uH ~ 220uH	0.43mΩ ~ 0.6Ω	55A	118A
NPIM_PE	Low DCR	155°C Rated	0.1µH ~ 100µH	0.25mΩ ~ 190mΩ	60A	115A
NPIM_W	Wide Temperatures	180°C Rated	470nH ~ 68uH	4.0mΩ ~ 0.24Ω	24A	26A
NPMS	Molded Chip Style	General Range	0.24µH ~ 10µH	18mΩ ~ 216mΩ	5.6A	10A
NPMT	Ultra-High Current	Improved Performance	0.22µH ~ 4.7µH	7.4mΩ ~ 170mΩ	9A	8.7A
NPMG	Ultra-Low DCR	Low DC & AC Losses	0.08µH ~ 15µH	0.8mΩ ~ 450mΩ	27A	73A
NPIM_Z	High Frequency	Ultra High Performance	0.1µH ~ 33uH	2mΩ ~ 33mΩ	52A	57A

## RF & Signal Inductors

Series	Construction	Description	Size Range	Inductance Range	Idc Max	Highest Q Min..	Highest SRF Min.
NIN-H	Ceramic Wirewound	Full Range	0402 ~ 1812	0.8nH ~ 33uH	1.4A	65	14Ghz
NIN-S		Ultra-High Performance	0402	1.3nH ~ 75nH	3.15A	35	18Ghz
NIN-Z		High Current	0402 ~ 0603	1.0nH ~ 390nH	2.3A	49	16Ghz
NLA	Air Core	High Q, Epoxy Top	0403 ~ 1006	2.5nH ~ 538nH	4A	145	12.5Ghz
NML	Ceramic Multilayer	General Purpose	0201 ~ 0603	0.6nH ~ 470nH	1.0A	12	10Ghz
NMLQ		High Q	0201 ~ 0402	0.6nH ~ 100nH	1.0A	22	10Ghz
NML-HQ		High Q	01005 - 0201	0.2nH ~ 47nH	1.0A	17	20Ghz
NML-SQ		Ultra High Q	01005 - 0201	0.2nH ~ 150nH	1.1A	20	20Ghz
NTI	Thin Film	Tight Precision	0201 ~ 0402	0.1nH ~ 33nH	800mA	13	14Ghz

Series controlled to IATF-16949 certified lines and AECQ200 Qualified

**NIC** Components Corp.

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# NIC Components Corp. Inductor Cross Reference Guide

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## NIC Inductor Application Focus

- ◆ Power Supplies
- ◆ Noise Suppression
- ◆ Choke Applications
- ◆ Circuit matching

## End Product Focus

- ◆ DC-DC Converts (Buck, Boost, SEPIC)
- ◆ High Power
- ◆ High Load Power Supplies
- ◆ Controls Systems
- ◆ Wireless Systems
- ◆ POL Regulation
- ◆ Lighting & Display Drivers

## NIC Magnetic Co-Sells

- Hybrid Aluminum E-Caps (NSPE-\*)
- Solid Chip Aluminum E-Caps (NSP)
- High CV MLCC's (NMC)
- Co-Polymer Tantalum Caps (NTP)
- Current Sensing Resistors (NCS\*)



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Power Inductors	NIC	Bourns	CoilCraft	Kemet	Murata	Sumida	Taiyo Yuden	TDK	Tyco	Vishay	Würth
	NPI_C	SDE	-	SSB	-	CD VDI	-	-	DN	IDCP	WE-PD2
	NPI_W	SDR	DO	-	-	CDR	-	-	DU	IDC	WE-PD4
	NPIS_D	SRU	MSS	H.DI	-	CDRH_D	-	-	-	-	WE-TPC
	NPIS_F	SRR	MSS	-	-	CDRH	-	-	-	-	WE-TPC XLH
	NPIS_H	SRR	MSS	H.DI	-	CDRH	-	-	-	-	WE-PD
	NPIS_L	SRN	LPS	-	LQH	CDEP	NR MDKK	VLF VLS	-	IFSC	WE-LGSH
	NPIS_LA										
	NPIS_LS										
	NPIS_LP										
	NPIM_L										
	NFP (S/H)	-	-	-	LQM	-	CBC	MLZ	-	-	-
	NPIM S	SRP	MLC, MVR	MPC	-	CDM CDEP	-	SPM VLB	-	IHLP	WE-MASHH
	NPIM PA										
	NPIM PE										
NPIM_W											
NPMS											
NPMT	-	XAL, XFL XEL, XGL	-	-	CDMT	-	-	-	-	-	
NPMG											
NPIM_Z											

Chip Inductors	NIC	Coilcraft	Epcos	KOA	Murata	Panasonic	Taiyo-Yuden	TDK	Toko	Vishay
	NML	-	-	NML NHL	LGG LGP	-	HK	MLG MLK	LLP	ILC
	NFI	-	-	-	LQM	-	-	-	-	ILSB
	NIN-H									
	NIN-S	CS, CT HS, HP, HT, HQ, LS	B82498F	KQ KL	LQW	-	-	ACL, NL NLC	LL LLG	IFC
	NIN-Z									
NIN	CS, CT HS, LS	-	KQ KL	LQN	ELJ=C ELJ-A	LEM	-	LS NB	IMC ISC	