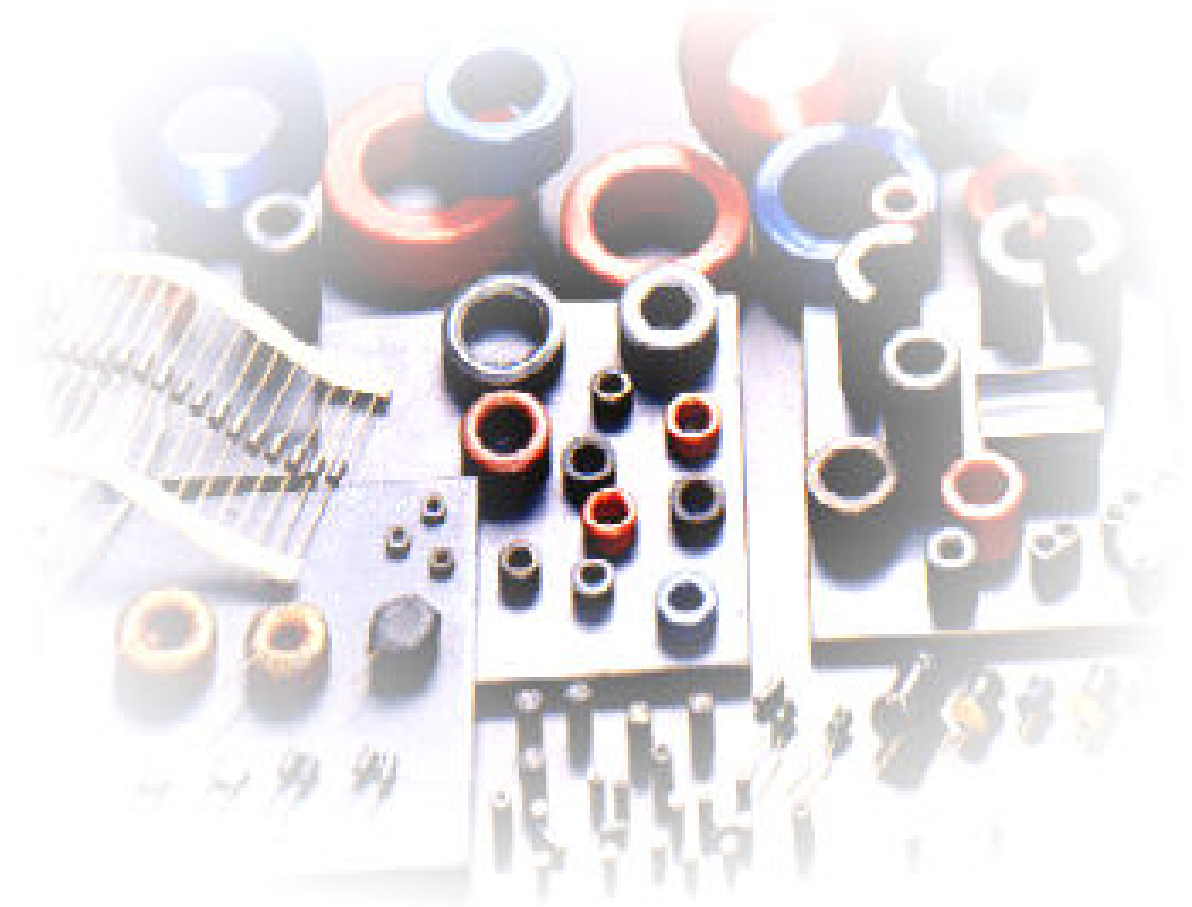


FERRITE CORES

FOR EMI SUPPRESSION CORES
(OP/RING/BEAD/BNF/MH/OF/TILE CORES)

PRODUCTS GUIDE



FEELUX CO.,LTD.

INTRODUCTION

We, Feelux Co.,Ltd., is well known to the world-wide customer, who are working for the coil & its concerned industries, as good supporter in technical side and supplier with good delivery and best quality in their products.

With the experience accumulated for over 20 years, Feelux has concentrated their full power to develop the soft ferrite core and various coil components. Among them, it is very unique achievements for them to develop the total system to protect from them to develop the total EMC/EMI noise in all of electronic and electric equipments or products.

We are confident that such Feelux's comprehensive suggestion could make any engineer suppressed effectively any electronic noise, which has been developed through their 20 years engagement for ferrite core, coil components and any electronic products such as electronic ballast for fluorescent light and transformer for Neon lamp.

CONTENTS

INTRODUCTION / MATERIAL CHARACTERISTICS	1	6-HOLE / BEAD INDUCTOR	9
OP / RING	2~5	PLAT / CABLE	10,11
BNF	6, 7	SR / TILE	12
BEAD / BLI	8	OVER SEA FACTORY / BRANCH	

EMI MATERIAL CHARACTERISTICS

Characteristic	Symbol	Unit	Condition	K-100G	K-150
AC initial permeability	μ_{iac}	-		1000	1500
Saturation flux density	Bs	mT	1194A/m	280	260
Residual flux density	Br	mT		170	100
Coercivity	Hc	A/m		15	11
Relative loss factor	$\tan\delta/\mu_i$	$\times 10^{-6}$		100	20
			f(MHz)	0.3	0.1
Relative temperature factor	$\alpha_{\mu r}$	$\times 10^{-6} \%$	20℃ ~ 60℃	24	8
Curie temperature	Tc	℃		>110	>100
Resistivity	ρ	$\Omega \cdot m$		10^6	10^6
Density	d	$\times 10^3 \text{ kg/m}^3$		4.8	5.0

Notes

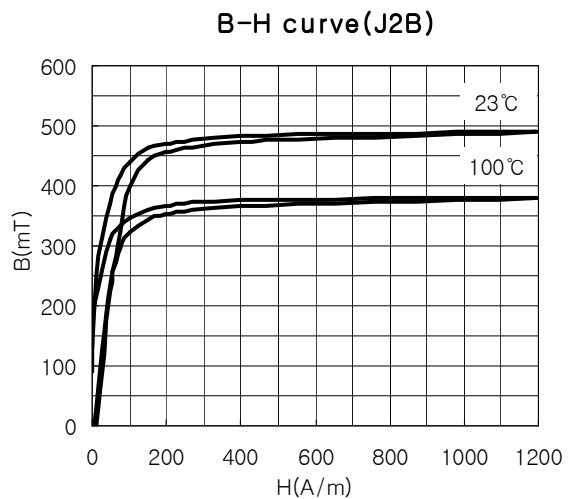
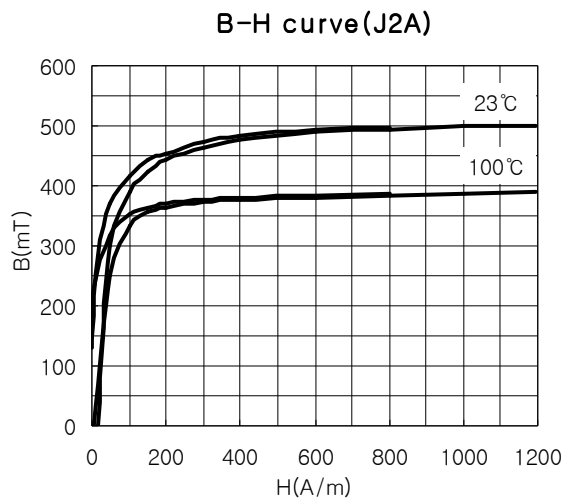
1. This values were obtained with toroidal core(TR25.2X16.8X8.4)
2. 1mT=10Gauss, 1A/m= $4\pi \times 10^{-3}$ Oe
3. Impedance indicate a typical value of measured ones.

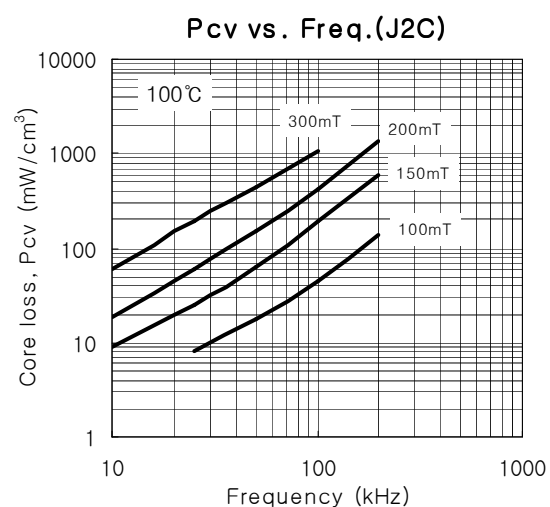
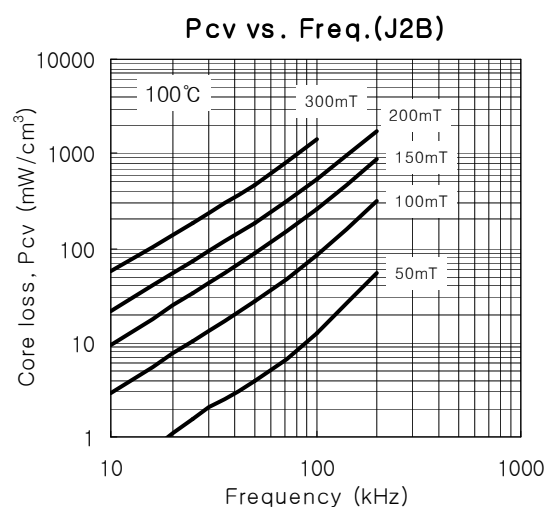
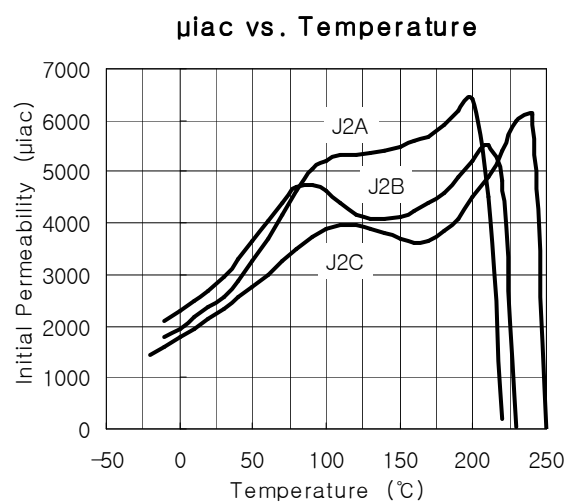
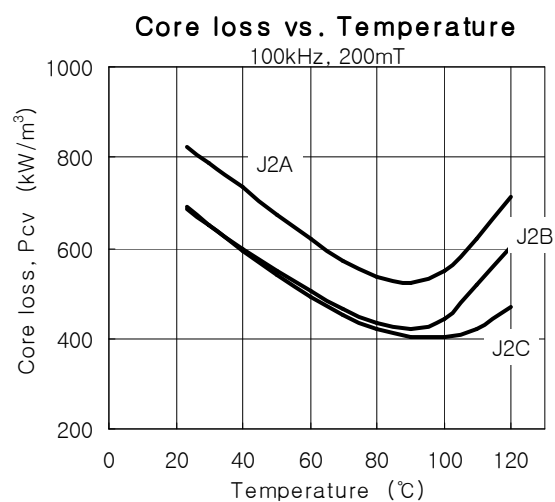
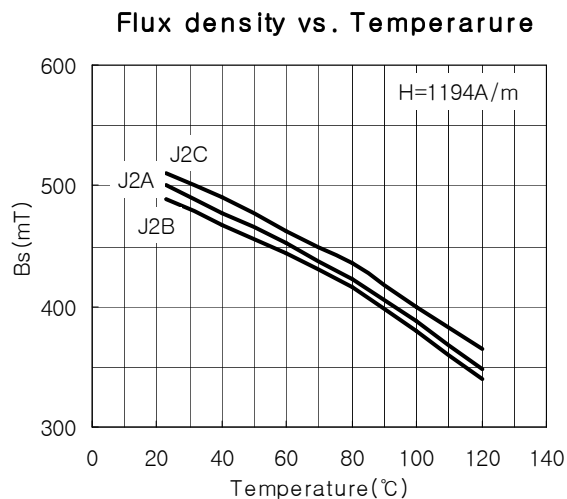
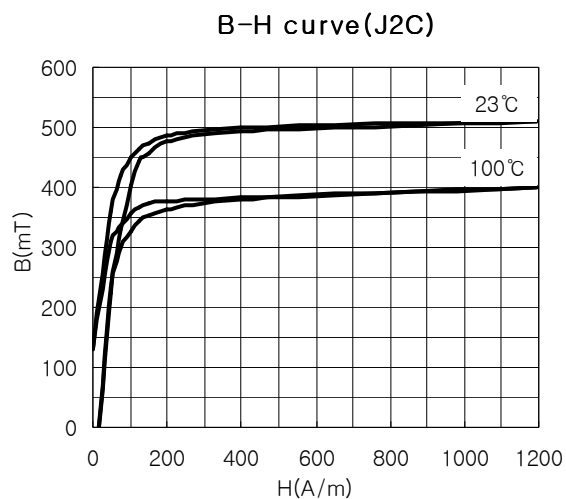
MATERIAL CHARACTERISTICS (Power material)

Characteristic	Symbol	Unit	Condition	J2A	J2B	J2C
AC initial permeability	μ_{iac}	—		2400	2600	2300
Saturation magnetic Flux Density (1194A/m)	B _s	mT	23℃	500	490	510
			100℃	390	380	400
Residual magnetic Flux Density	B _r	mT	23℃	150	130	95
Coercivity	H _c	A/m	23℃	14	11	14
Core loss	P _{cv}	kW/m ³	25kHz 200mT	23℃	145	120
				60℃	95	75
				80℃	75	60
				100℃	75	60
			100kHz 200mT	23℃	820	680
				60℃	620	500
				80℃	550	440
				100℃	550	440
Curie temperature	T _c	℃		>210	>210	>230
Resistivity	ρ	$\Omega \cdot m$		6	7	3
Density	d	X10 ³ kg/m ³		4.85	4.85	4.85

Notes

1. This values were obtained with troidal core(TR25.2x16.8x8.4)
2. 1mT=10Gauss, 1A/m=4 π X10⁻³ Oe





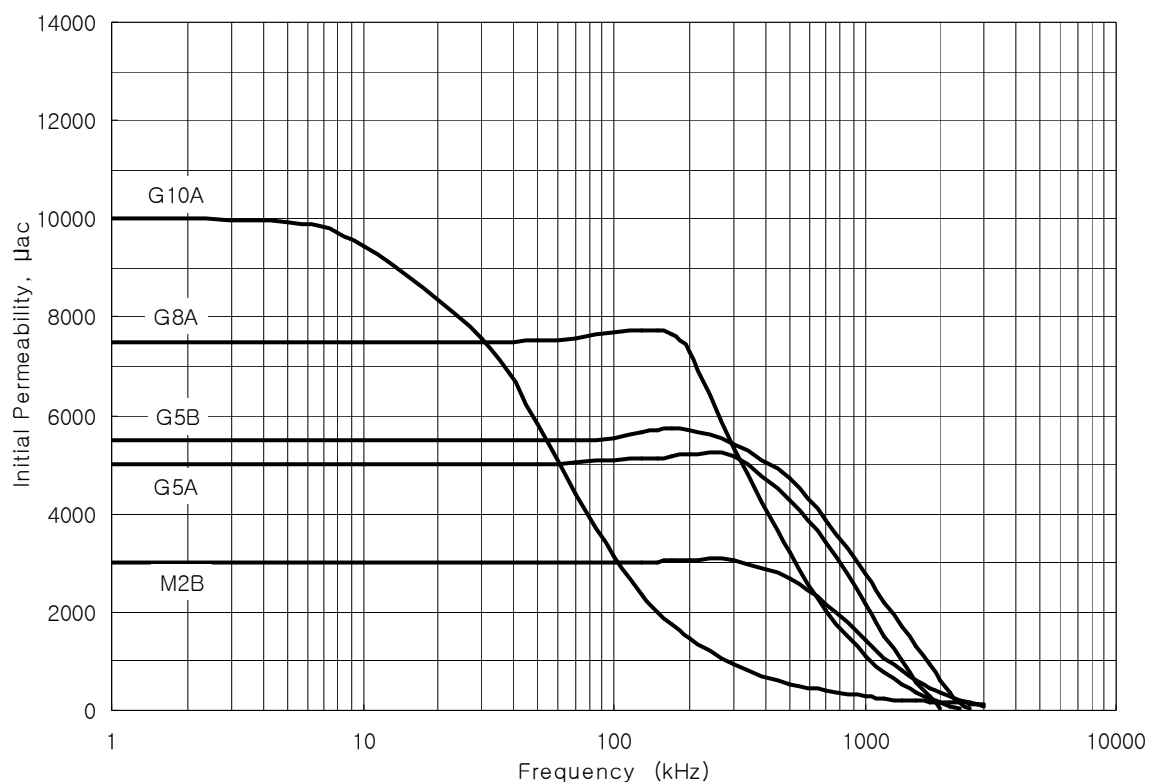
MATERIAL CHARACTERISTICS (High μ material)

Characteristic	Symbol	Unit	Condition	M2B	G5A	G5B	G8A	G10A
AC initial permeability	μ_{iac}	—		3000	5000	5500	7500	10000
Saturation magnetic flux density	B _s	mT	1194A/m	480	440	370	430	360
Residual magnetic flux density	B _r	mT		180	150	70	120	100
Coercivity	H _c	A/m		10	11	5	8	3
Relative loss factor	$\tan\delta/\mu_i$	$\times 10^{-6}$		<20	<20	<10	<10	<10
			f(kHz)	100	100	10	10	1
Relative temp. factor	$\alpha\mu_r$	$\times 10^{-6} \text{ } ^\circ\text{C}$	20 $^\circ\text{C}$ ~ 60 $^\circ\text{C}$		-0.5~1.5	-0.5~1.5	-0.5~1.5	-0.5~1.5
Curie temperature	T _c	$^\circ\text{C}$		>200	>150	>110	>110	>100
Resistivity	ρ	$\Omega \cdot \text{m}$		2	1	1.5	0.3	0.1
Density	d	$\times 10^3 \text{ kg/m}^3$		4.8	4.8	4.8	4.9	4.9

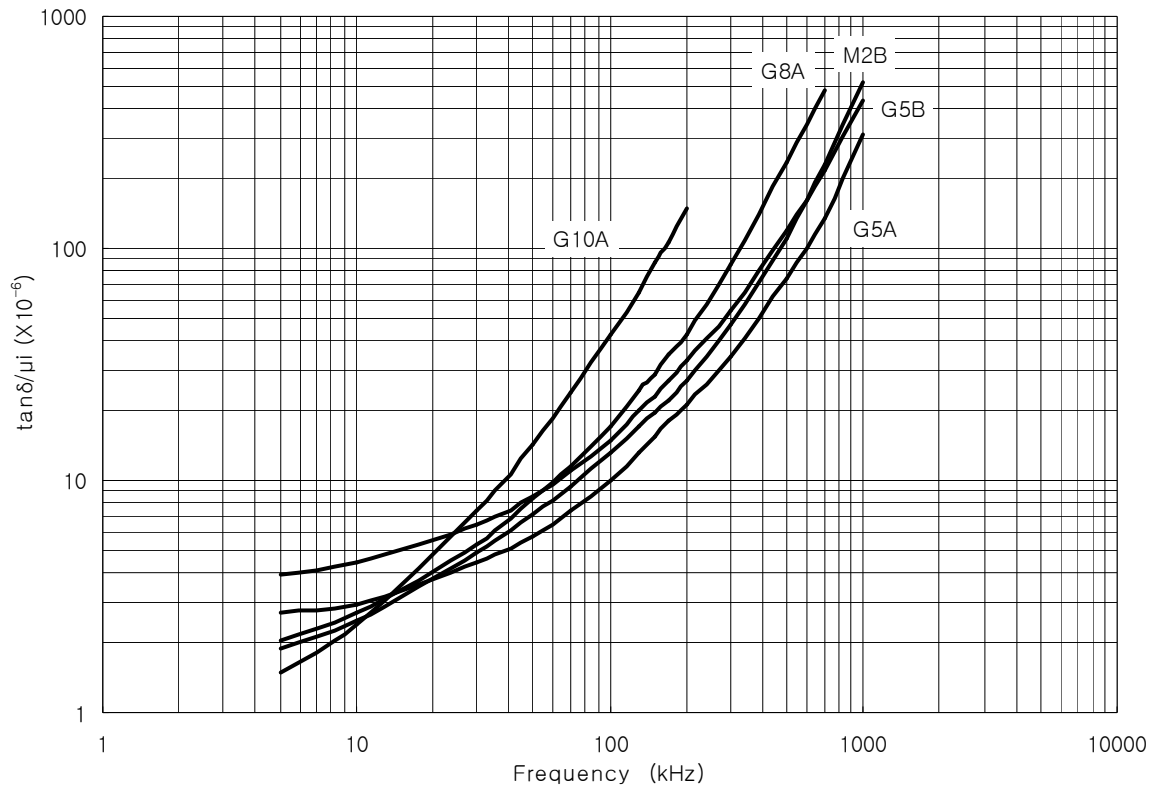
Notes

1. This values were obtained with troidal core(TR25.2x16.8x8.4)
2. 1mT=10Gauss 1A/m= $4\pi \times 10^{-3}$ Oe

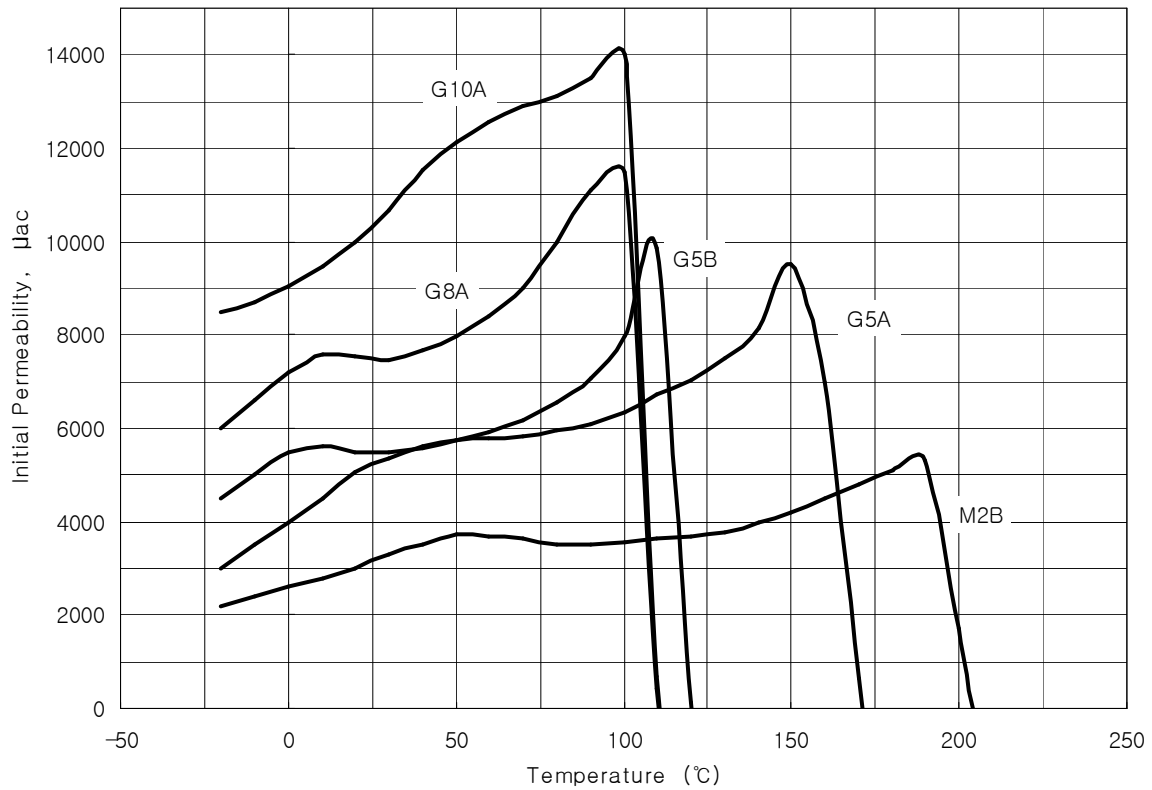
μ_i vs. Frequency



$\tan\delta/\mu_i$ vs. Frequency

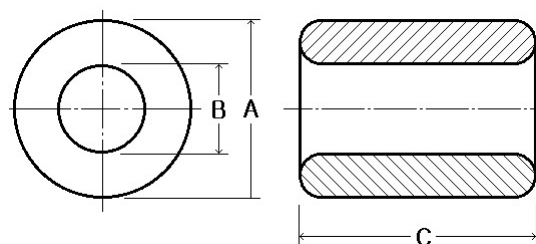


μ_{iac} vs. Temperature



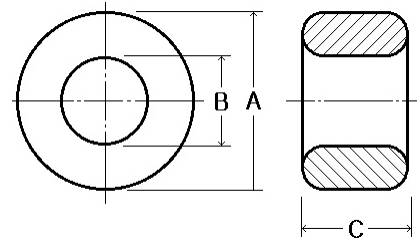
SHIELD BEADS

OP CORES



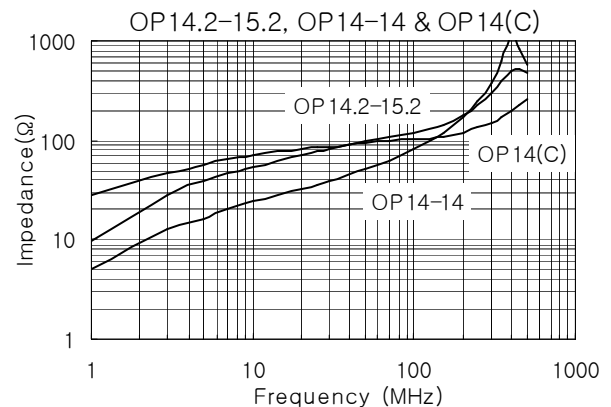
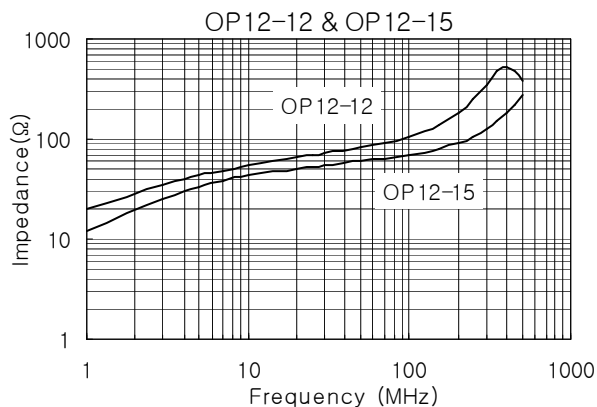
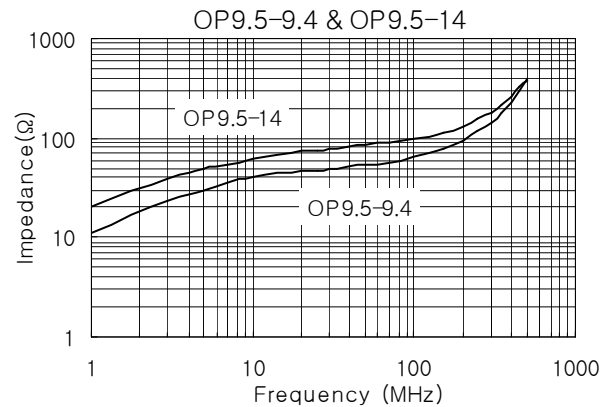
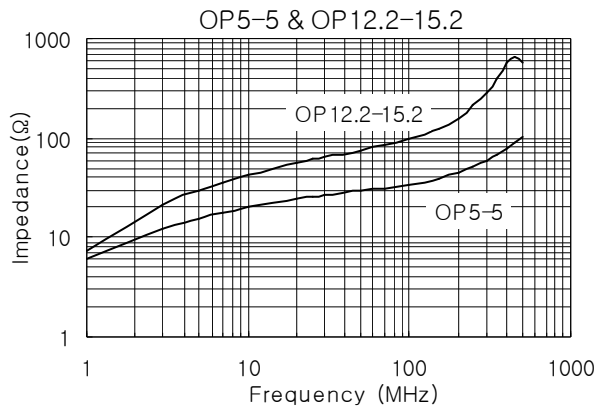
Type	Dimensions(mm)			Impedance (Ω ,1turn)		
	A	B	C	10MHz	25MHz	100MHz
OP5-5	5.0 +0/-0.2	2.5±0.1	5.0+0/-0.3	15	18	45
OP9.5-9.4	9.5±0.3	4.7±0.3	9.4±0.4	30	40	75
OP9.5-14	9.5±0.3	4.7±0.3	14.0±0.4	62	76	97
OP9.5-20	9.5±0.3	4.8±0.3	20±0.2	40	85	120
OP9.8	9.8±0.3	6.3±0.3	7.4±0.5	10	15	45
OP12-15	12.0±0.4	7.5±0.3	15.0±0.5	35	45	85
OP12-20	12.0±0.4	5.2±0.3	20.0±0.5	75	80	100
OP14-14	13.7±0.4	10.0±0.3	13.7±0.7	25	35	82
OP14(A)	14.3±0.4	8.2±0.3	23.5±0.7	48	75	116
OP14(B)	14.2±0.5	6.4±0.4	28.5±0.8	105	130	185
OP14(C)	14.3±0.4	7.2±0.4	15.0±0.6	40	50	70
OP14(E)	14.2±0.5	7.0±0.4	28.5±0.8	60	80	100
OP14(F)	14.2±0.5	9.0±0.5	24.5±0.5	50	64	100
OP16(A)	16.0±0.4	7.9±0.4	27.5±0.8	37	80	100
OP16(C)	16.0±0.5	7.9±0.4	17.0±0.5	50	70	80
OP18.1-12.1	18.1±0.4	9.5±0.4	12.1±0.5	42	60	97
OP18.4-28.3	18.4±0.5	9.9±0.4	28.3±0.8	94	132	185
OP18(A)	18.2±0.4	11.0±0.4	25.5±0.4	55	80	100
OP18(B)	18.2±0.5	9.5±0.4	28.2±0.8	70	90	150
OP18(C)	18.2±0.4	9.6±0.4	12.0±0.5	30	40	60
OP18(D)	18.2±0.4	9.6±0.3	10.0±0.4	16	30	45
OP18(E)	18.2±0.4	12.5±0.3	25.5±0.5	35	50	90
OP18.5-28.5	18.5±0.4	11.5±0.5	28.5±1.0	40	60	110
OP28	27.5±0.8	14.0±0.5	28.2±1.0	70	90	120

RING CORES

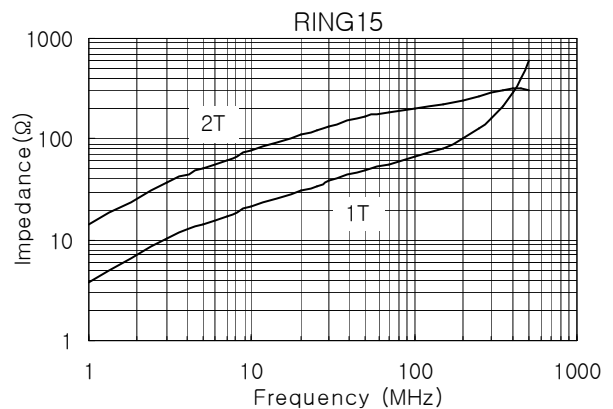
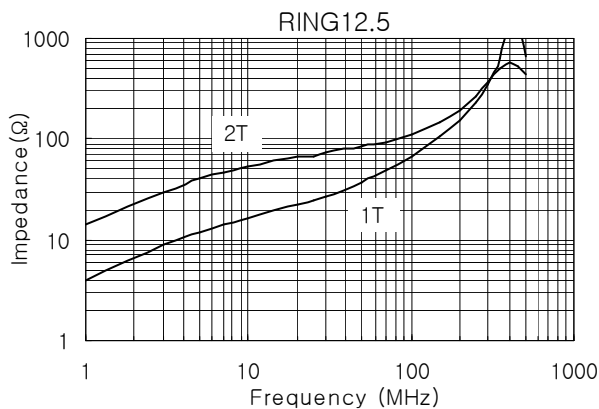
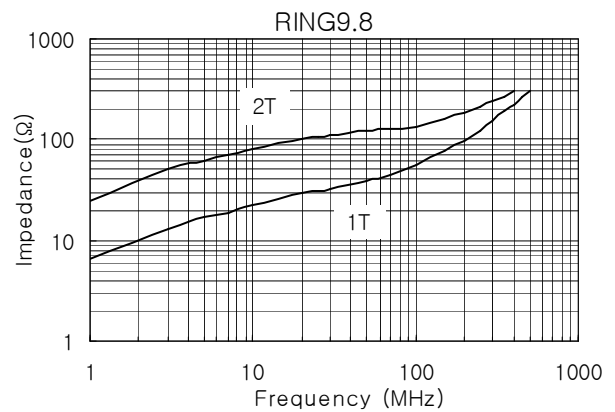
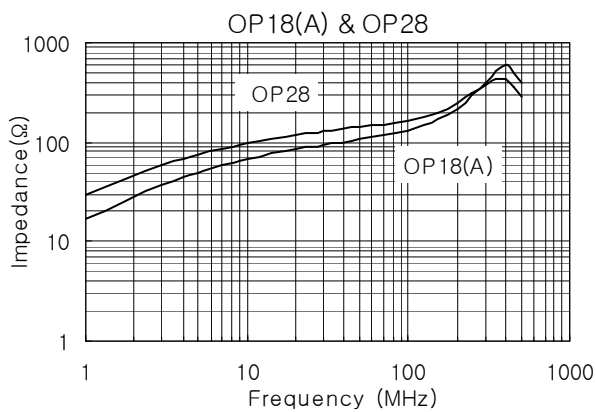
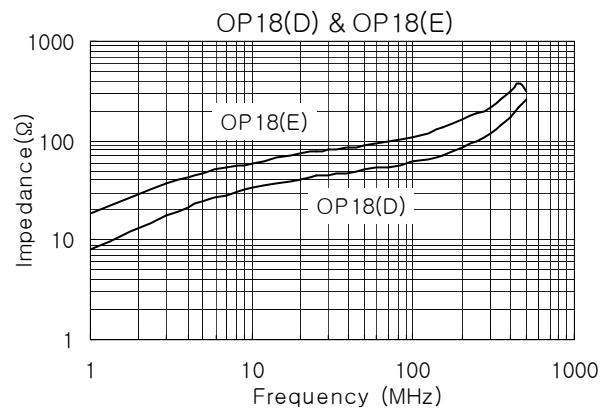
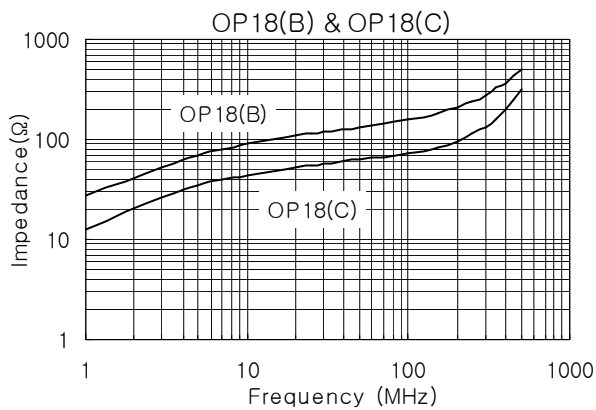
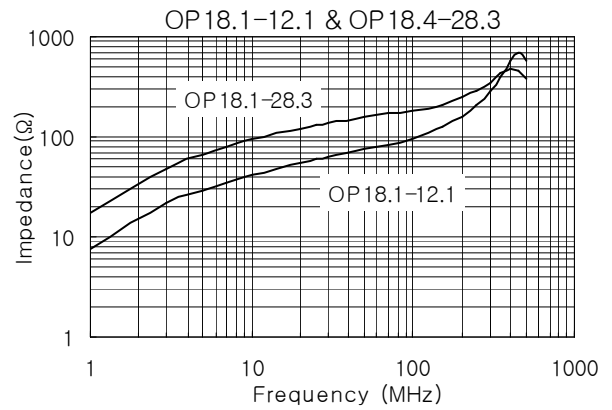
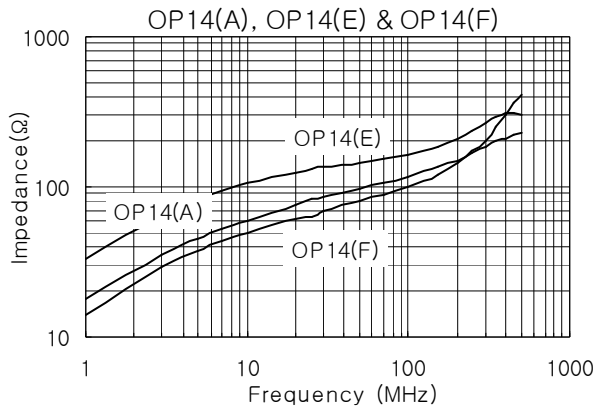


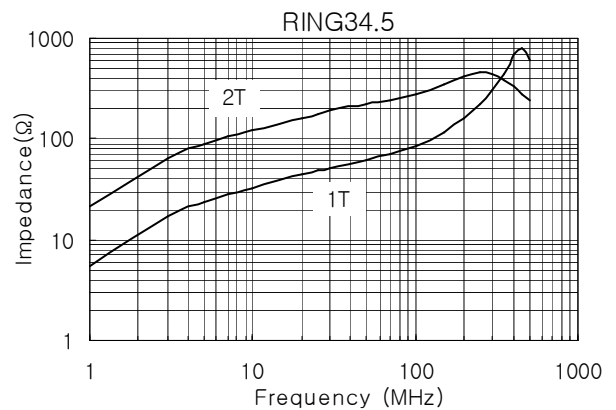
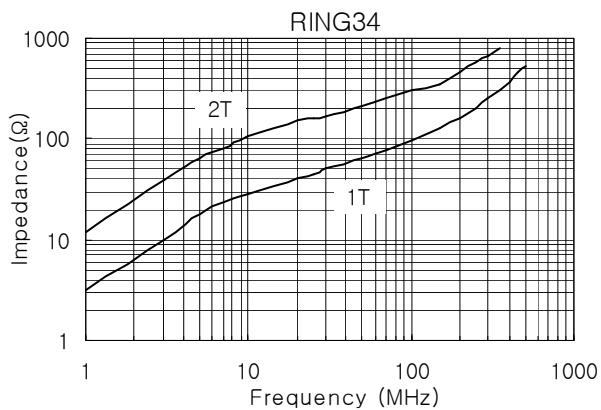
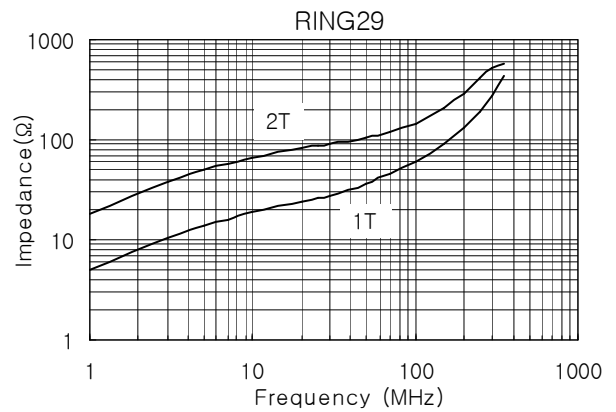
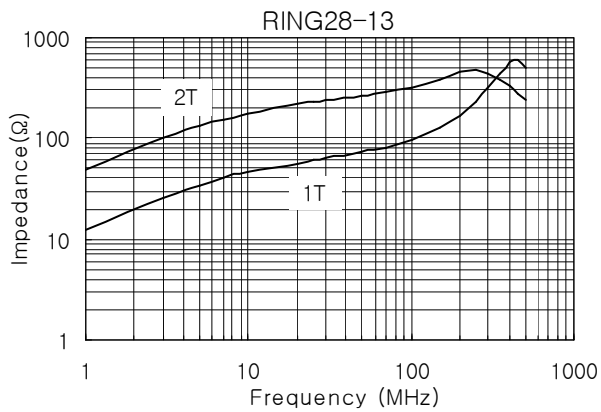
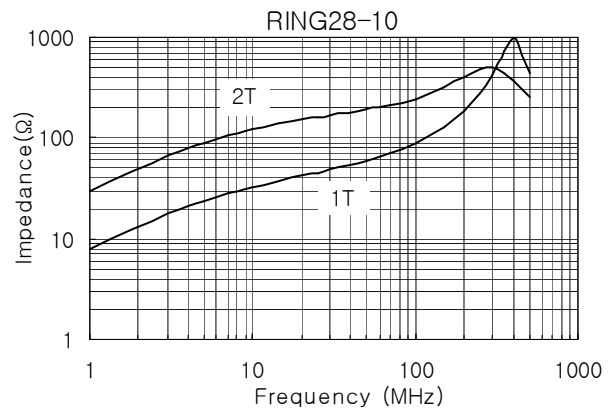
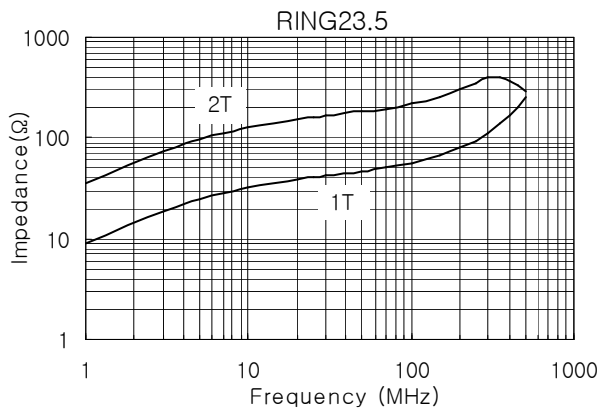
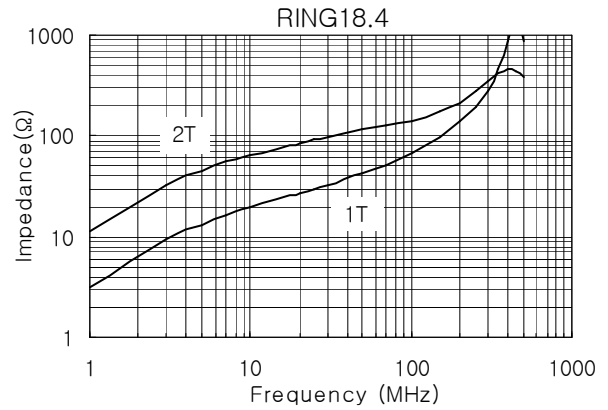
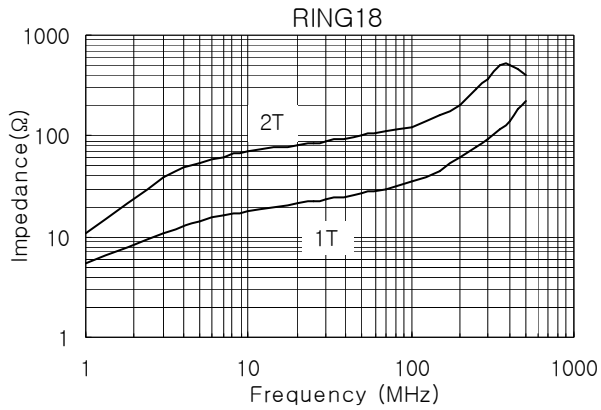
Type	DIMENSION(mm)			Impedance (Ω , 2turns)		
	A	B	C	10MHz	25MHz	100MHz
RING9.8	9.8 \pm 0.4	4.9 \pm 0.4	5.1 \pm 0.5	81	105	135
RING12.5	12.2 \pm 0.3	7.6 \pm 0.4	5.4 \pm 0.4	54	68	110
RING15	14.5 \pm 0.5	7.5 \pm 0.4	7.0 \pm 0.4	77	123	206
RING18	18.0 \pm 0.5	11.2 \pm 0.4	6.0 \pm 0.4	70	85	120
RING18.4	18.4 \pm 0.5	11.1 \pm 0.4	6.1 \pm 0.4	66	93	141
RING23.5	23.5 \pm 0.6	12.6 \pm 0.5	9.4 \pm 0.6	129	160	216
RING28-10	28.0 \pm 0.6	15.4 \pm 0.5	10.0 \pm 0.5	120	160	240
RING28-13	28.0 \pm 0.6	15.4 \pm 0.5	13.0 \pm 0.5	178	230	324
RING29	29.0 \pm 0.6	19.2 \pm 0.6	7.6 \pm 0.5	67	88	147
RING34	34.5 \pm 0.6	21.0 \pm 1.0	12.0 \pm 0.7	105	160	300
RING34.5	34.5 \pm 0.6	20.8 \pm 0.5	12.3 \pm 0.7	124	179	282

Impedance vs. Frequency Characteristics.



SHIELD BEADS





Split Ferrite Core Filters For Round Cables (Clamp Type)

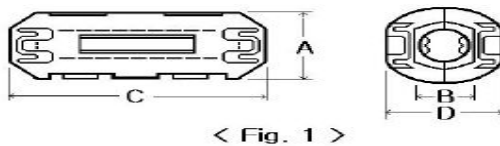
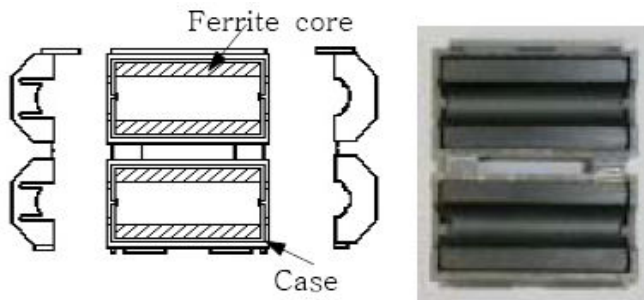
BNF CORES



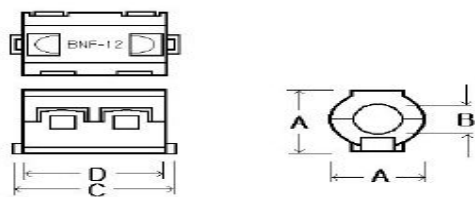
Features

- A separated toroidal core with a plastic case.
- A applicable cable diameter is from 4.5mm to 12.5mm.

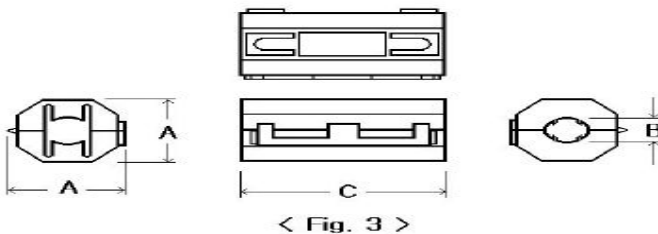
Internal Construction



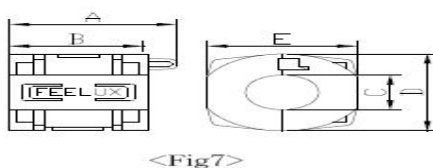
< Fig. 1 >



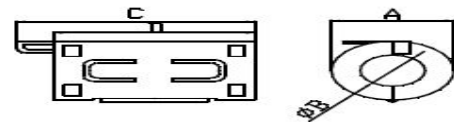
< Fig. 2 >



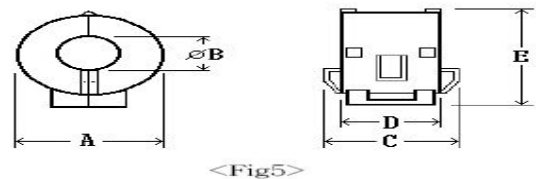
< Fig. 3 >



< Fig7 >



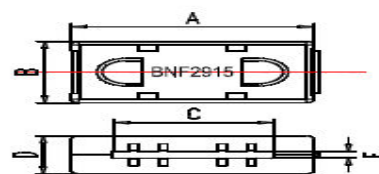
< Fig.4 >



< Fig5 >



< Fig6 >



< Fig8 >

Applications

PC, Printers, Facsmiles, Copiers, HDD,

Materials of Case

Nylon UL94V-0

Color

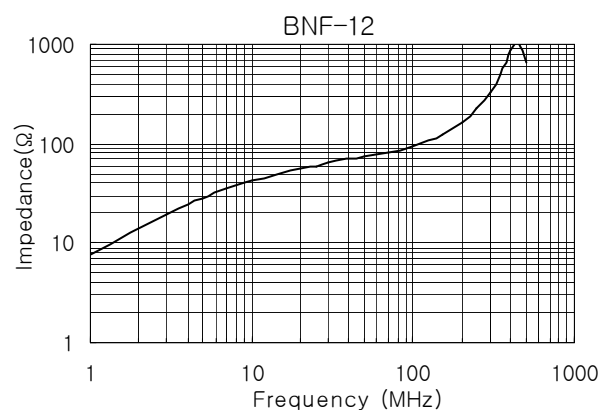
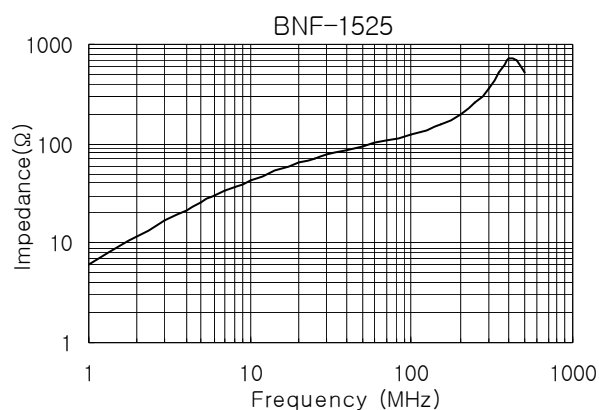
Gray or Balck

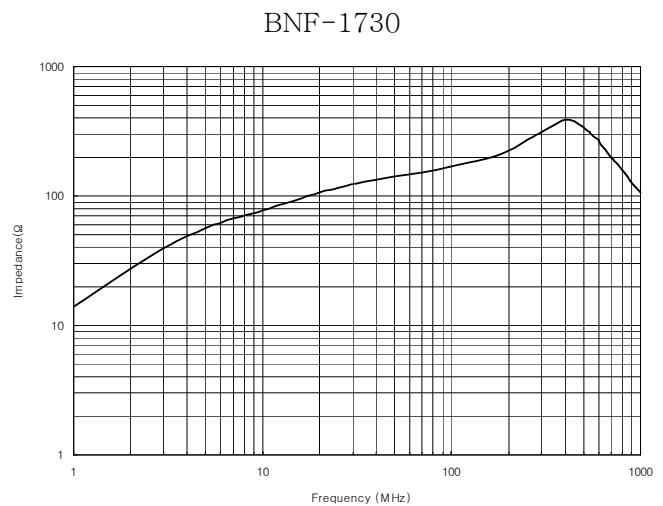
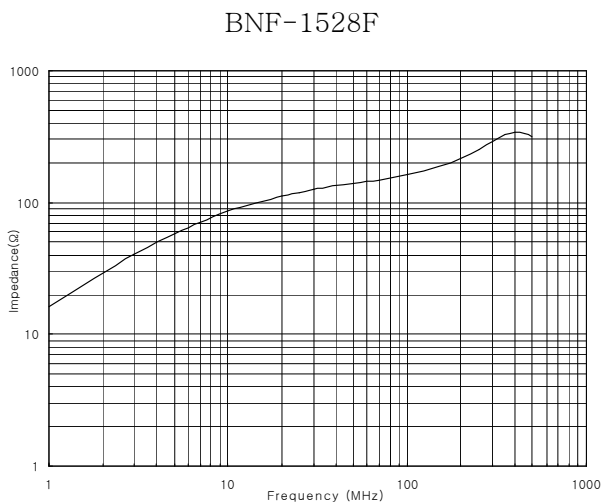
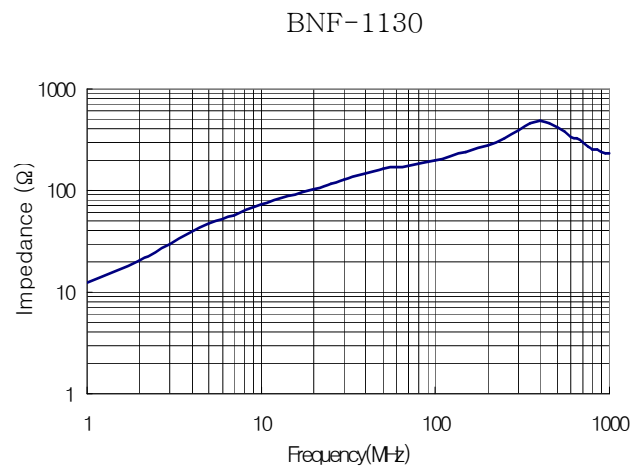
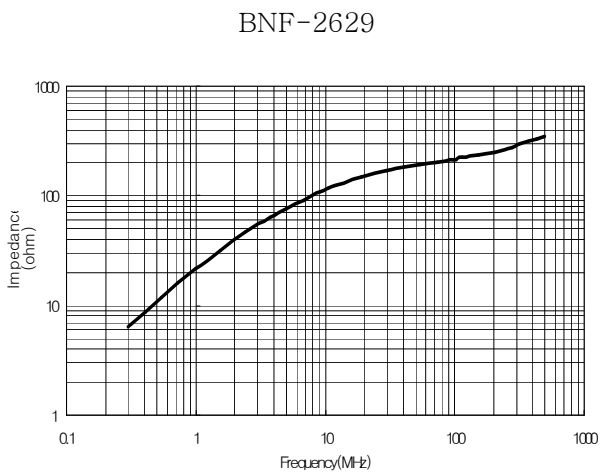
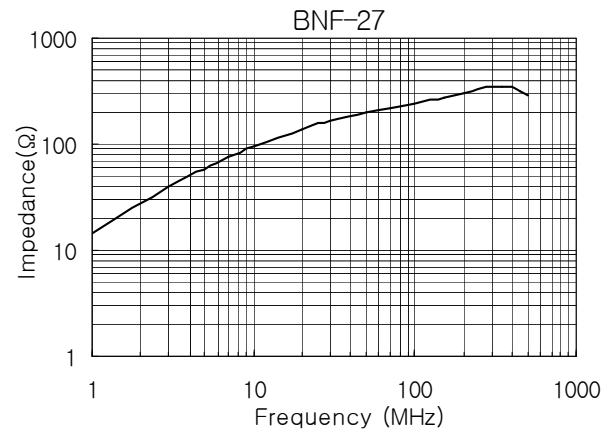
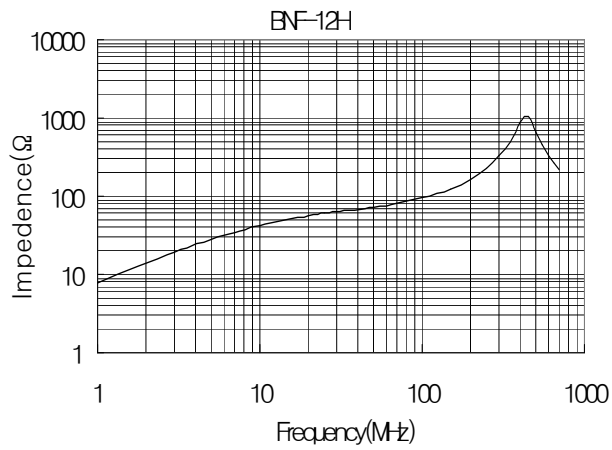
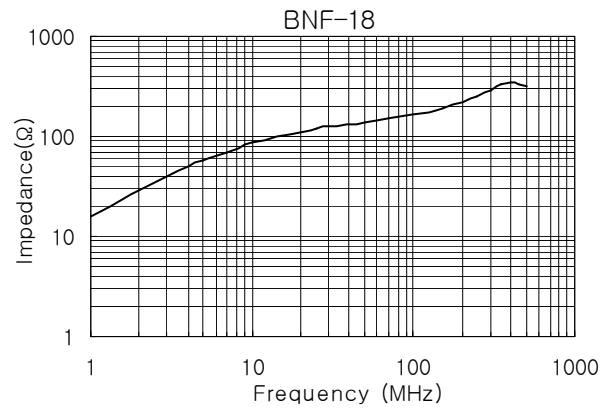
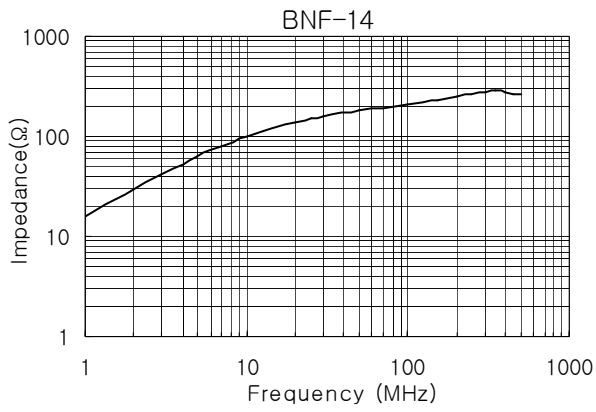
Split Ferrite Core Filters For Round Cables (Clamp Type)

Type	Fig No.	Dimensions (mm)					Impedance (Ω min, 1turn)		
		A(Max.)	B(Min.)	C(Max.)	D(Max.)	E(Max.)	10MHz	25MHz	100MHz
BNF-1525	1	14.0	4.5	26.0	12.5		40	55	100
BNF-12	2	17.0	6.0	24.0	19.0		20	25	50
BNF-14	3	21.0	6.5	32.5			70	120	220
BNF-18	3	25.0	9.0	32.5			50	80	150
BNF-27	3	34.5	12.5	32.5			60	130	200
BNF-12H	4	16.5	6.0	23.0	19.0		25	45	65
BNF-2629	4	31	12	40	35		80	110	110
BNF-1130	4	21.5	10	37	33		20	60	110
BNF-0930	1	20.5	8	36	19		50	80	140
BNF-1730	1	17.5	6	31	16		30	50	110
BNF-1528F	1	22	7.3	37	15		60	90	180
BNF-1010	5	25.5	9.5	21	14	30	15	35	75
BNF-1512	5	30	14	23	17	34	18	30	70
BNF-2915	8	33.5	17.5	22	11.5	2.0	10	25	80
BNF-0822	6	20	8	22			30	48	110
BNF-0917	7	21	17	9	20	18	20	35	80

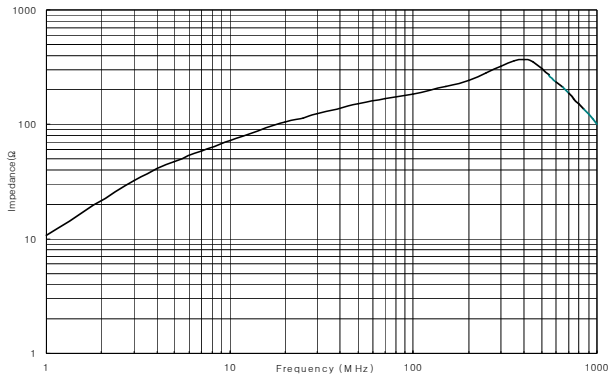
Impedance vs. Frequency Characteristics.

(Impedance indicate a typical value of measured ones, Test wire:0.6mm ϕ wire 100mm 1turn)

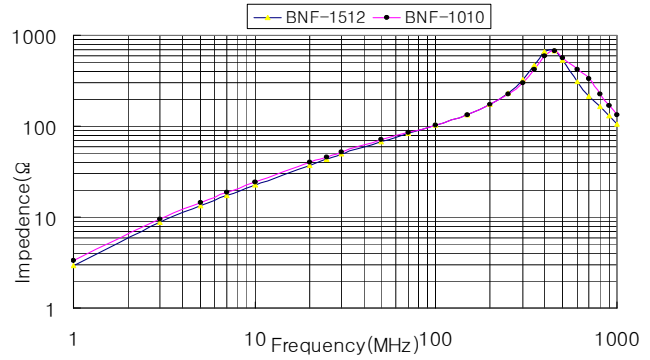




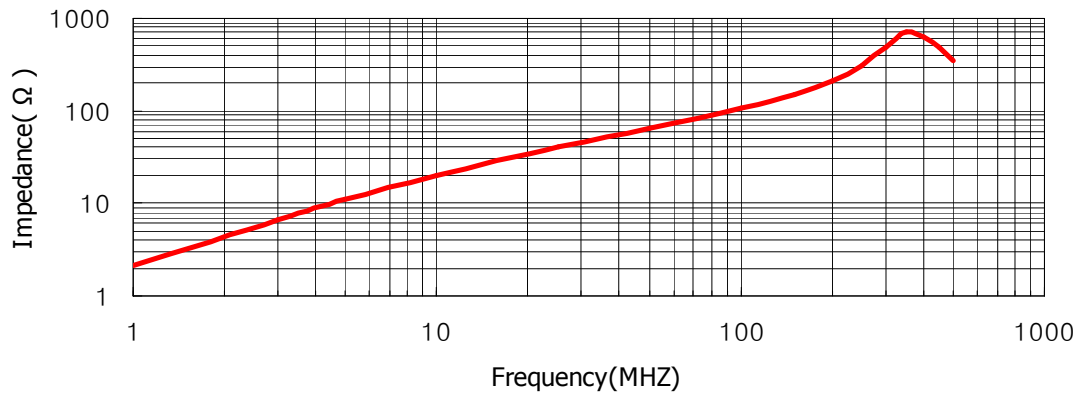
BNF-0930



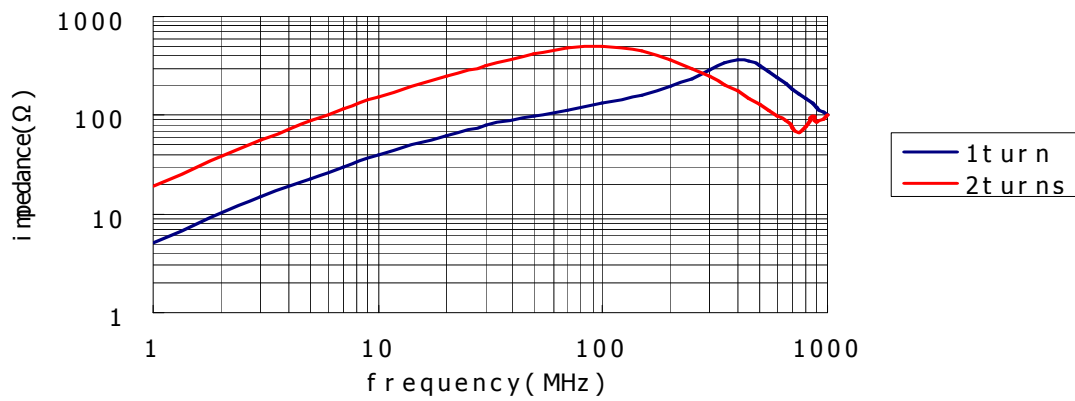
BNF-1010, BNF-1025



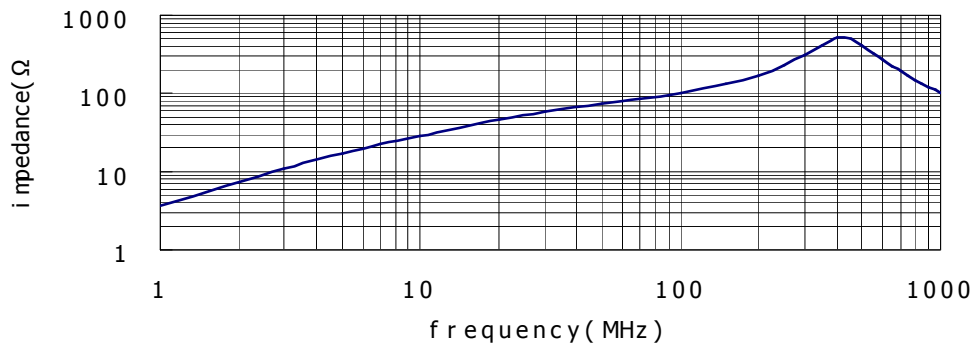
BNF-2915



BNF-0822

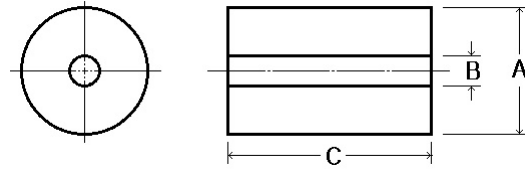


0917



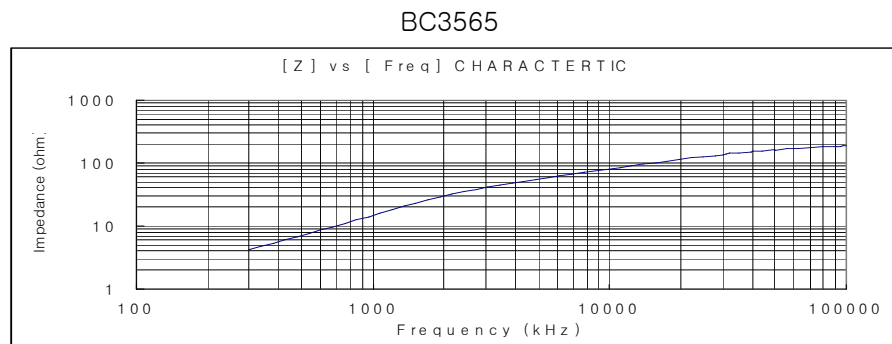
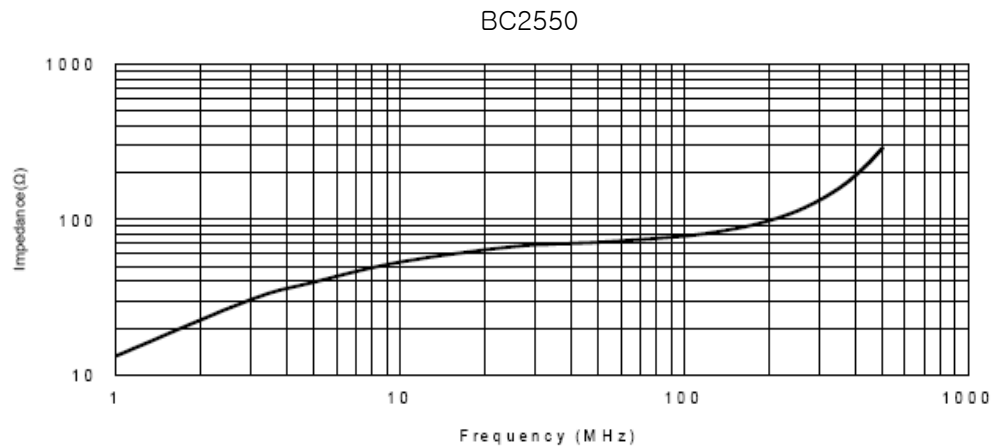
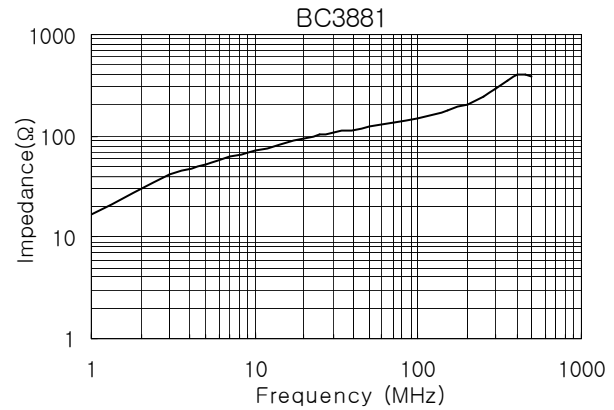
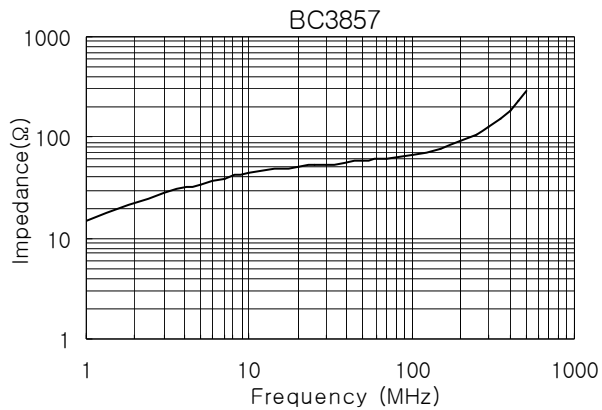
BEADS ON LEAD

BEAD CORES



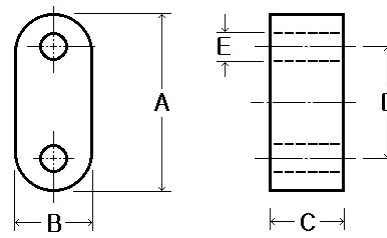
Type	Dimensions(mm)			Impedance (Ω , 1turn)		
	A	B	C	10MHz	25MHz	100MHz
BC2550	2.5 ± 0.15	0.8 ± 0.15	5.0 ± 0.25			50 min
BC3857	3.6 ± 0.3	1.0 ± 0.1	5.7 ± 0.4	44	53	68
BC3881	3.8 ± 0.3	0.8 ± 0.1	8.1 ± 0.4	70	100	150
BC3550	3.5 ± 0.3	1.0 ± 0.1	5.0 ± 0.3			60 min
BC3890	3.8 ± 0.3	0.8 ± 0.1	9.0 ± 0.4	40 min.		
BC 3565	3.5 ± 0.3	0.8 ± 0.15	6.5 ± 0.5			160 min

Impedance vs. Frequency Characteristics.



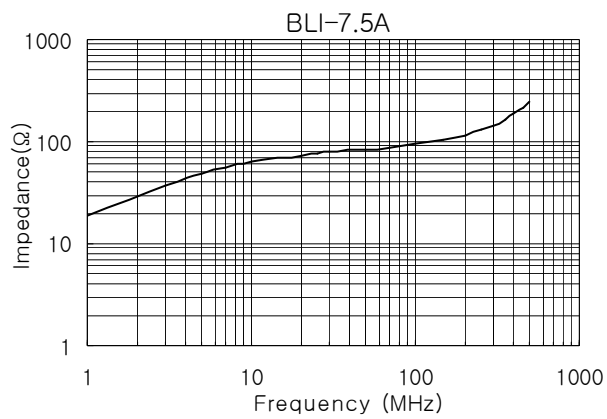
BEADS ON LEAD

BLI CORES



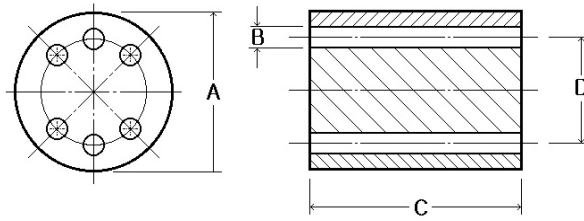
Type	Dimensions(mm)					Impedance (Ω , 1turn)		
	A	B	C	D	E	10MHz	25MHz	100MHz
BLI-7.5A	7.5 ± 0.3	2.2 ± 0.3	5.0 ± 0.3	5.0 ± 0.3	0.8 ± 0.1	62	77	95

Impedance vs. Frequency Characteristics.



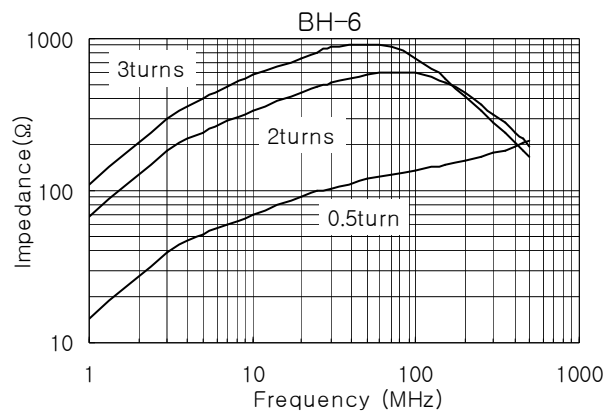
EMI SUPPRESSION FOR CONNECTORS

6 HOLE BEAD

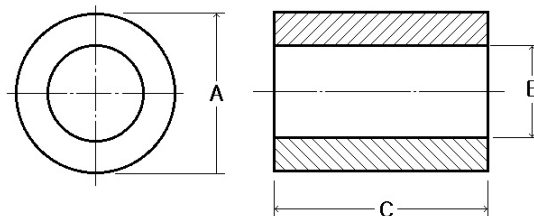


Type	Dimensions(mm)				Impedance (Ω , 0.5turn)		
	A	B	C	D	10MHz	25MHz	100MHz
BH-6	6.0 ± 0.3	0.8 ± 0.1	10.0 ± 0.5	3.8 Ref.	70	99	137

Impedance vs. Frequency Characteristics.

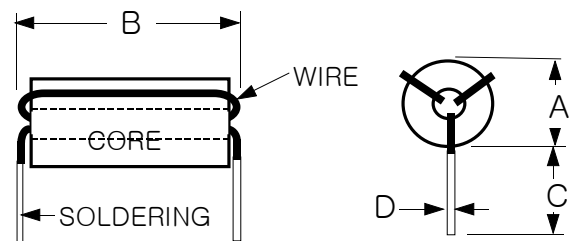
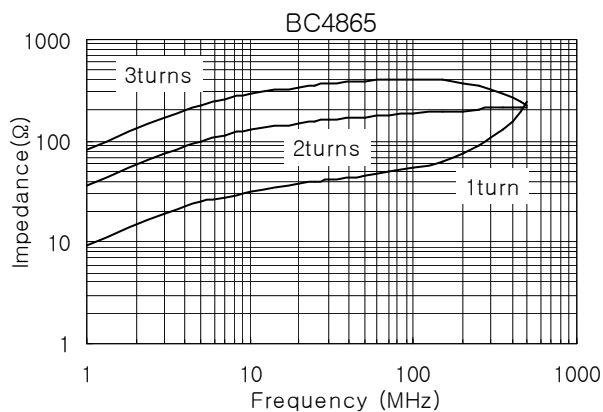


BEAD INDUCTOR



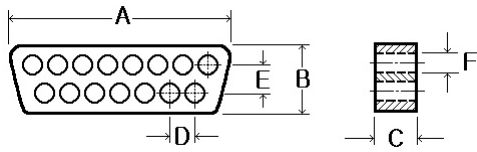
Type	Dimensions(mm)			Impedance (Ω , 1turn)		
	A	B	C	10MHz	25MHz	100MHz
BC4865	4.8 ± 0.3	2.0 ± 0.1	6.5 ± 0.4	32	40	54

Impedance vs. Frequency Characteristics.

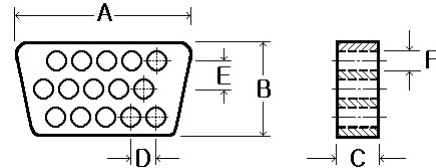


<BI4865-3T Inductor>

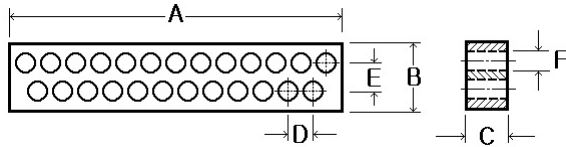
CONNECTOR SUPPRESSION PLAT CORES



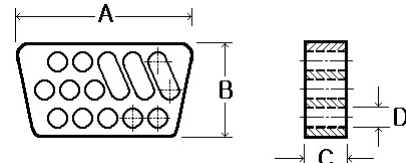
<Fig.1>



<Fig.2>



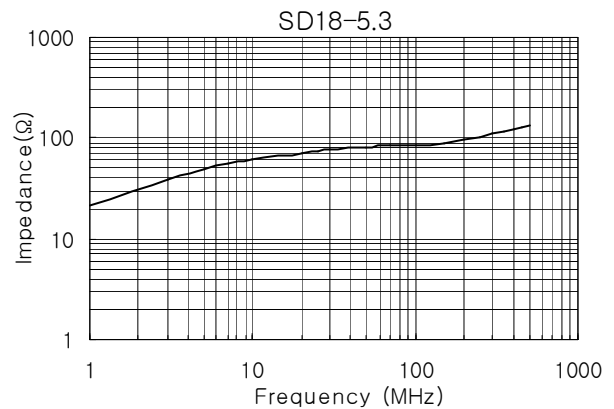
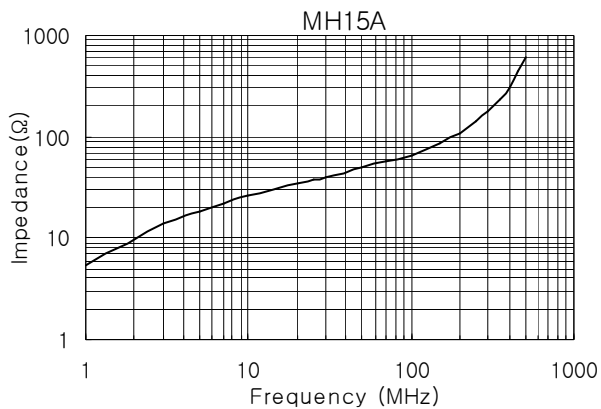
<Fig.3>



<Fig.4>

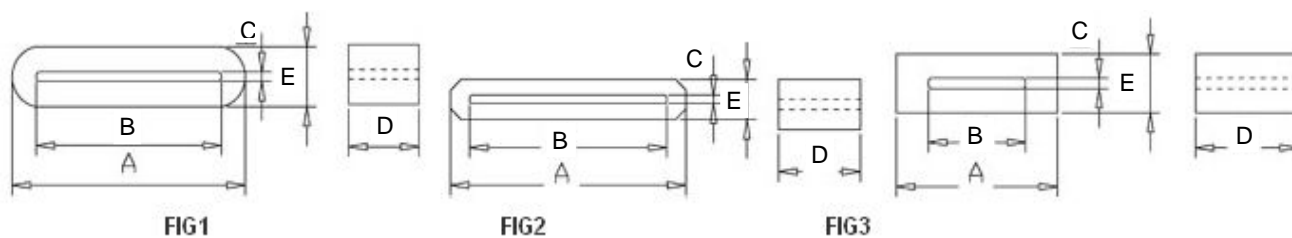
Type	FIG.	Dimensions(mm)						Impedance(Ω , 1turn)		
		A	B	C	D	E	F	10MHz	25MHz	100MHz
MH15A	1	24.0 \pm 0.4	6.7 \pm 0.25	6.7 \pm 0.5	2.77 \pm 0.2	2.84 \pm 0.2	1.7 \pm 0.2	26	38	67
MH15B	2	15.5 \pm 0.3	6.7 \pm 0.3	5.0 \pm 0.5	2.34 \pm 0.2	1.98 \pm 0.2	1.3 \pm 0.2	20min.		
MH25	3	36.3 \pm 0.6	7.75 \pm 0.25	3.5 \pm 0.2	2.75 \pm 0.1	2.85 \pm 0.1	1.8 \pm 0.2	10min.		
SD18-5.3	4	18.0 $\begin{smallmatrix} +0 \\ -0.2 \end{smallmatrix}$	9.8 $\begin{smallmatrix} +0 \\ -0.2 \end{smallmatrix}$	5.3 \pm 0.1	1.0 ref.			62	75	85

Impedance vs. Frequency Characteristics.



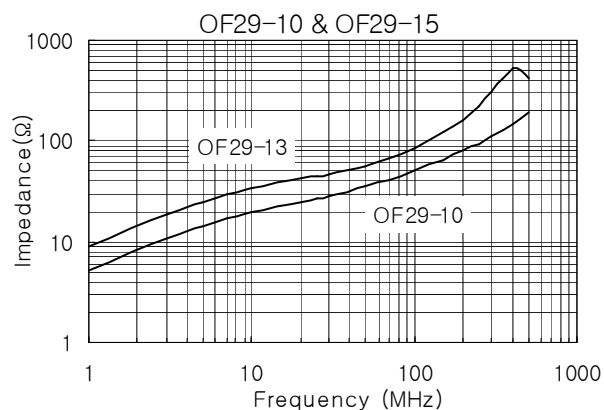
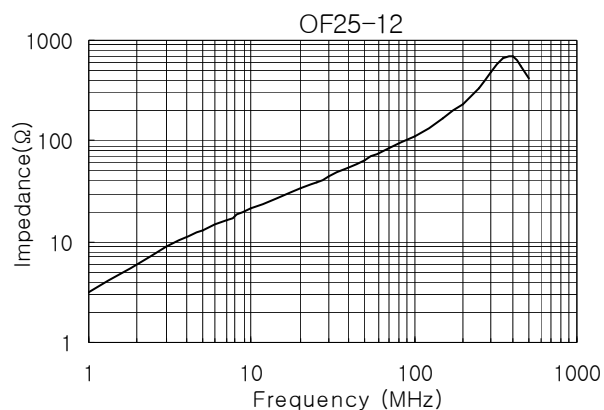
SR, TILE CORES

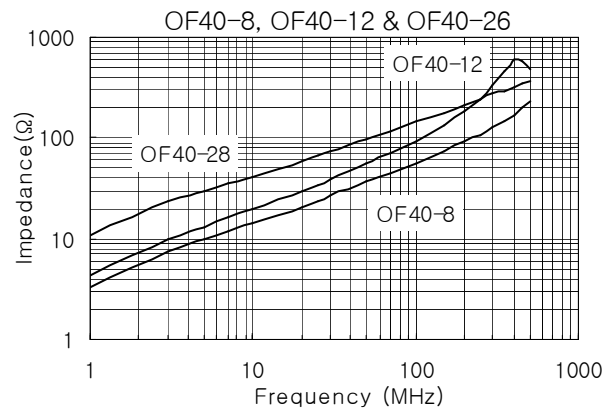
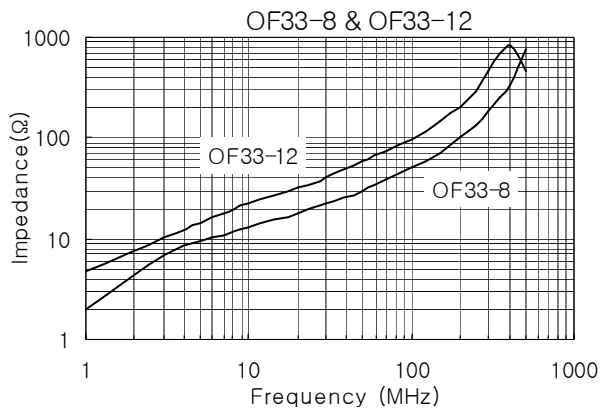
CABLE SUPPRESSION CORES



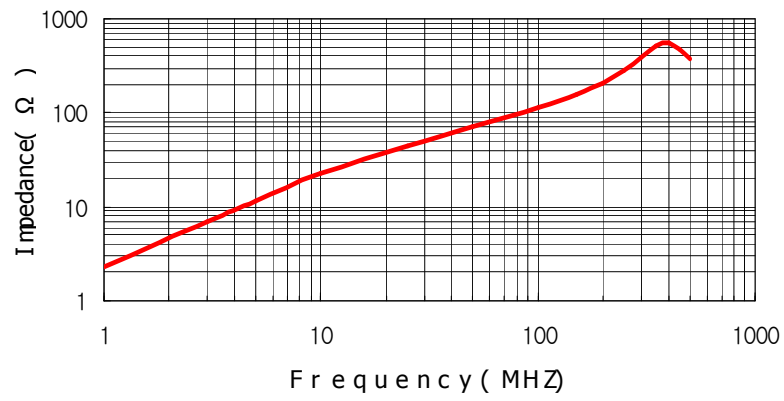
Type	Dimensions(mm)					Impedance (Ω , 1turn)			FIG
	A	B	C	D	E	10MHz	25MHz	100MHz	
OF19-14	19.0 \pm 0.8	14.0 \pm 0.5	6.5 \pm 0.5	13.7 \pm 0.6	1.3 \pm 0.2	15	35	80	1
OF22.35-19.05	22.35 \pm 0.5	19.05 \pm 0.64	7.75 \pm 0.4	14.0 \pm 0.4	1.5 \pm 0.25	40	70	120	3
OF25-12	25.0 \pm 0.7	21.0 \pm 0.5	12.0 \pm 0.5	5.0 \pm 0.4	1.1 \pm 0.2	20	40	110	1
OF29-10	29.0 \pm 0.5	22.0 \pm 0.5	10.0 \pm 0.5	8.0 \pm 0.4	2.0 $^{+0.4}_{-0.2}$	19	27	50	1
OF29-15	29.0 \pm 0.5	22.0 \pm 0.5	15.0 \pm 0.5	8.0 \pm 0.4	2.0 $^{+0.4}_{-0.2}$	34	44	85	1
OF33-8	33.0 \pm 0.5	27.0 \pm 0.6	8.0 \pm 0.5	6.5 \pm 0.3	1.5 \pm 0.2	13	20	50	2
OF33-12	33.0 \pm 0.5	27.0 \pm 0.6	12.0 \pm 0.5	6.5 \pm 0.3	1.5 \pm 0.2	22	36	98	2
OF33-30	33.0 \pm 0.5	30.0 \pm 0.6	6.5 \pm 0.5	27.0 \pm 0.6	1.5 \pm 0.3	30	40	110	2
OF40-8	40.0 \pm 0.6	34.0 \pm 0.6	8.0 \pm 0.5	6.5 \pm 0.3	1.5 \pm 0.2	15	24	57	2
OF40-12	40.0 \pm 0.6	34.0 \pm 0.6	12.0 \pm 0.5	6.5 \pm 0.3	1.5 \pm 0.2	20	34	94	2
OF40-28	40.0 \pm 0.6	34.0 \pm 0.6	28.0 \pm 0.5	6.5 \pm 0.3	1.5 \pm 0.2	41	67	145	2
OF45-12	46.0 \pm 1.0	12.0 \pm 0.5	6.5 \pm 0.3	40.0 \pm 1.0	1.5 \pm 0.2	10	20	60	2
OF46-12	46.0 \pm 0.6	12.0 \pm 0.6	5.0 \pm 0.5	41.5 \pm 1.0	0.8 \pm 0.5	10	20	70	1

Impedance vs. Frequency Characteristics.

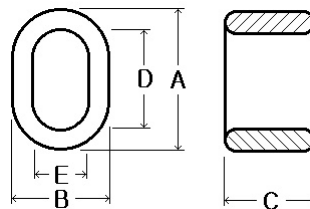




OF46-12

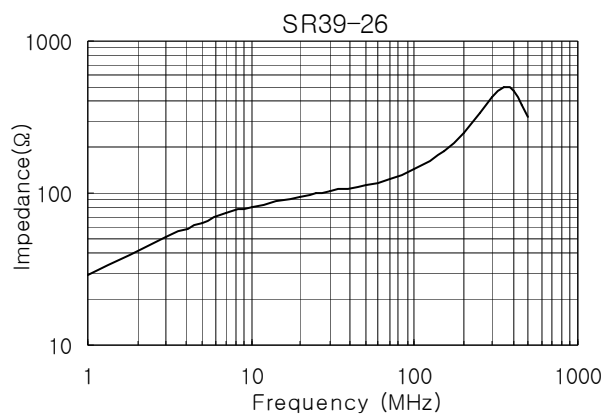


SR CORES

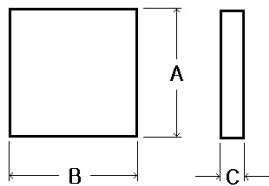


Type	Dimensions(mm)					Impedance (Ω , 1turn)		
	A	B	C	D	E	10MHz	25MHz	100MHz
SR39-26	38.5 ± 0.75	26.0 ± 0.6	28.6 ± 0.7	26.5 ± 0.75	12.95 ± 0.25	82	99	144

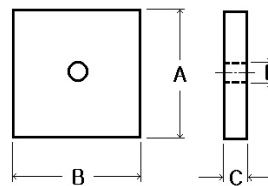
Impedance vs. Frequency Characteristics.



TILE CORES



<Fig. 1>



<Fig. 2>

Type	Fig.	Dimensions(mm)			
		A	B	C	D
TILE 100-6	1	100.0 ± 0.5	100.0 ± 0.5	6.0 ± 0.5	
TILE 100-10	1	100.0 ± 0.5	100.0 ± 0.5	10.0 ± 0.5	
TILE 100-6H	2	100.0 ± 0.5	100.0 ± 0.5	6.0 ± 0.5	4.72 ± 0.3
TILE 100-10H	2	100.0 ± 0.5	100.0 ± 0.5	10.0 ± 0.5	4.72 ± 0.3

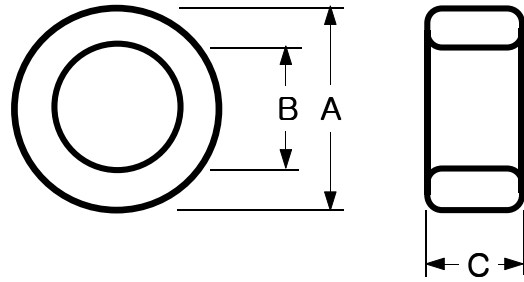
TR CORES

Applications

- Line Filters, Pulse Transformers, Choke Coils, Various Coils, etc.

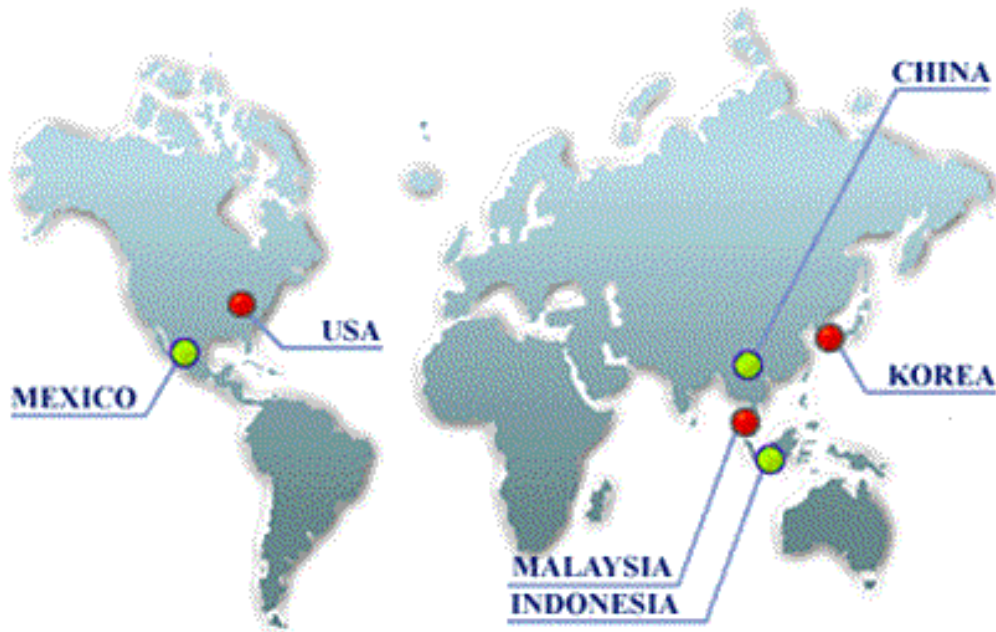
Materials

- J2A, J2B, M2B, G5A, G5B, G8A, G10A



Type	Dimensions(mm)			Magnetic parameter			AL(nH)				
	A	B	C	Le (Cm)	Ae (Cm²)	W (g)	J2A	M2B	G5A	G8A	G10A
TR8-4-2	8.0±0.3	4.0±0.3	2.0±0.2	1.742	0.038	0.36	650	830	1200	1700	2300
TR8-4-3	8.0±0.3	4.0±0.3	3.0±0.2	1.742	0.06	0.55	950	1240	1900	2200	3700
TR8-4-6	8.0±0.3	4.0±0.3	6.0±0.2	1.742	0.115	1.00	1300	1650	3600	5000	7000
TR10-6-5	10.0±0.3	6.0±0.3	5.0±0.2	2.407	0.098	1.22	1200	1500	2200	3300	4500
TR12-6-6	12.0±0.3	6.0±0.3	6.0±0.3	2.61	0.115	2.22	1950	2490	4150	6230	8300
TR12.7-7.9-3	12.7±0.3	7.9±0.3	3.0±0.3	3.117	0.07	1.04	980	1310	1400	2000	2800
TR12.7-7.9-5	12.7±0.3	7.9±0.3	5.0±0.2	3.117	0.118	2.13	1100	1420	2100	3000	4000
TR12.7-7.9-6.3	12.7±0.3	7.9±0.3	6.3±0.3	3.117	0.148	2.42	1400	1790	2600	3800	5500
TR12.7-7.9-6.5	12.7±0.3	7.9±0.3	6.5±0.3	3.117	0.153	2.50	1450	1860	2900	4300	6000
TR14-7.5-7	14.0±0.3	7.5±0.3	7.0±0.3	3.174	0.213	3.60	2000	2620	3600	5400	7200
TR14-8-4	14.0±0.4	8.0±0.3	4.0±0.3	3.282	0.117	2.10	1250	1800	2200	3000	4000
TR14-8-7	14.0±0.4	8.0±0.3	7.0±0.3	3.282	0.205	3.40	1700	2340	3900	6600	7000
TR18.4-10-5	18.4±0.3	10.0±0.4	5.0±0.3	4.460	0.186	4.30	1400	1820	2600	3900	5200
TR18.4-10-10	18.4±0.3	10.0±0.4	10.0±0.4	4.460	0.186	8.90	2650	4270	5900	8800	11600
TR19-12.5-6	19.0±0.3	12.5±0.3	6.0±0.2	4.806	0.192	4.53	1200	1500	2500	3500	5000
TR19-12.5-9.6	19.0±0.3	12.5±0.3	9.6±0.25	4.88	0.30	7.40	1800	2100	3900	5800	7500
TR19-12.5-11	19.0±0.3	12.5±0.3	11.0±0.3	4.806	0.352	7.55	2200	2760	4500	6800	9000
TR19-13-11	19.0±0.3	13.0±0.3	11.0±0.3	4.9	0.326	7.98	2400	2980	4800	7100	9300
TR22-14-6.5	22.0±0.4	14.0±0.3	6.5±0.2	5.47	0.26	4.7	1400	1760	2800	4500	5800

Type	Dimensions(mm)			Magnetic parameter			AL(nH)				
	A	B	C	Le (Cm)	Ae (Cm ²)	W (g)	J2A	M2B	G5A	G8A	G10A
TR22-14-8	22.0±0.4	14.0±0.3	8.0±0.2	5.47	0.31	8.5	1700	2160	3400	5100	7000
TR22-14-10	22.0±0.4	14.0±0.3	10.0±0.2	5.47	0.39	10.4	2100	2710	4200	6400	8600
TR22-14-12.7	22.0±0.4	14.0±0.3	12.7±0.3	5.47	0.50	14.3	2800	3600	5300	8200	11000
TR22-14-13	22.0±0.4	14.0±0.3	13.0±0.3	5.47	0.51	14.3	3000	3700	5400	8500	11000
TR25-15-10	25.0±0.4	15.0±0.4	10.0±0.2	6.03	0.49	15.0	2400	3060	5400	7500	10000
TR25-15-12	25.0±0.4	15.0±0.4	12.0±0.3	6.02	0.59	17.8	2900	3670	5800	9000	11000
TR25-15-20	25.0±0.4	15.0±0.4	20.0±0.4	6.01	0.97	29.2	4900	6120	10200	15300	20400
TR29-18-10	29.0±0.7	18.0±0.6	10.0±0.3	7.11	0.44	18.5	2700	3430	3900	5600	7500
TR29-18-13	29.0±0.7	18.0±0.6	13.0±0.3	7.11	0.57	25.9	2700	3430	5100	7300	9500
TR29-18-15	29.0±0.7	18.0±0.6	15.0±0.4	7.11	0.81	29.5	3400	4290	6400	9200	12000
TR29-19-15	29.0±0.7	19.0±0.6	15.0±0.5	7.32	0.74	27.2	3500	4330	5900	9000	12000
TR36-23-10	36.5±0.7	23.3±0.6	10.0±0.4	9.39	0.94	28.6	3600	4550	6100	7800	12000
TR36-23-15	36.5±0.7	23.0±0.6	15.0±0.5	9.02	0.99	46.0	3800	4900	6500	7800	13400
TR38-19-12.7	38.1±0.7	19.0±0.5	12.7±0.4	8.28	1.17	53.0	4400	6400	8700	13000	17000
TR38.5-19.8-13	38.5±0.5	19.8±0.4	13.15MAX	8.52	1.17	54.8	4500	6500	6900	12000	16800
TR38.5-19.8-24.9	38.5±0.5	19.8±0.5	24.9±0.5	8.52	2.24	105	7100	8900	16000	24000	32000
TR44.5-30-13	44.5±0.6	30.0±0.5	13.0±0.5	11.4	0.93	56.0	2400	3070	5000	7500	9600
TR45-30-10	45.0±0.6	30.4±0.5	10.0±0.5	11.8	0.66	58.5	2200	2800	3400	5100	6800
TR45-30-15	45.0±0.6	30.4±0.5	15.0±0.5	11.84	1.02	44.0	2300	3000	4700	7500	9200
TR49-31-10	49.5±0.6	31.8±0.6	10.0±0.6	12.77	0.77	48.0	2600	3000	3300	5500	7000
TR49-31-16	49.5±0.6	31.8±0.6	16.0±0.6	12.77	1.30	80.6	3200	4300	6000	8500	12000
TR49-31-19	49.2max.	30.2min.	18.8±0.3	12.8	1.58	96	3700	4650	7800		
TR51-31-7	51.0±1.0	31.0±0.7	7.0±0.3	12.36	0.69	43	2000	2400	3100	5000	6500
TR51-31-13	51.0±1.1	31.0±0.9	13.0±0.8	12.36	1.27	83	3100	3880	6000	9000	12000
TR51-31-16	51.0±1.1	31.0±0.9	16.0±0.8	12.36	1.56	104	3500	4200	6800	10000	13500
TR68-44-13.5	68.0±1.2	44.0±1.0	13.5±0.5	17.05	1.59	136	2800	3520	5500	8000	11000
TR68-44-15	68.0±1.2	43.7±0.5	15±0.4	17.05	1.77	151	3100	3800	5800	8300	11000
TR73-38-13	73.7±0.9	38.9±0.9	13.0±0.5	16.50	2.20	190	3600	5600	8000	12000	16000



PRODUCTS	
Mn-Zn Ferrite Core EE,EI,EER,TR,SQ,PQ,UU,FU,RM, -Low Loss Ferrite Core -High Impedance Ferrite Core -High Permeability Ferrite Core	Coil -Switching Transformer -Line Filter -Inductor -EMI/EMC Filter
EMI Ferrite Core OP,RING,BNF,Bead,Cable,Balun -EMI/EMC Suppressor Ferrite Core -Chip Bead	Ballast & Lamp -Electronic Ballast -Charming Lamp -Deco Lamp



HEAD OFFICE & FACTORY
 : 624-8, SUKU-RI, KWANGJECK-MYUN,
 YANGJU-KUN, KYUNGGI-DO, KOREA
 TEL : (031)8208-000
 FAX : (031)8208-105

SEOUL OFFICE
 : RM401, CHUNGKYE-JAE 1 KONGDAN, 511-2,
 CHUNGKEY 3-DONG NOWON-KU, SEOUL, KOREA
 TEL : (02)977-6677
 FAX : (02)977-8555

For improvement of its products, Feelux reserves the right to change specifications without prior notice to customers.
 2002. 01. Printed in Korea