NiZn Ferrite for Coil

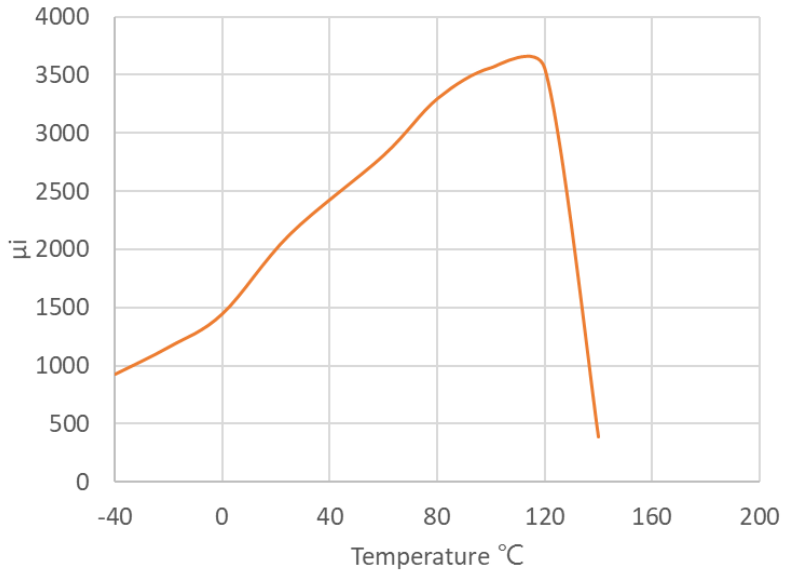
■ For general purpose

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Saturation magnetic flux density Bs (mT)	Remanent flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NZ200	2000±25%	<15[0.01MHz] <50[0.5MHz]	320[4kA/m]	50	20	>10^5	5.1x10^3
NZ150	1500±25%	<20[0.01MHz] <35[0.5MHz]	350[4kA/m]	90	10	>10^5	5.1x10^3
NZ15	150±25%	<90[10MHz]	400[4kA/m]	250	100	>10^5	5.1x10^3
NZ05	30-70	<220[30MHz]	355[4kA/m]	260	320	>10^5	5.1x10^3

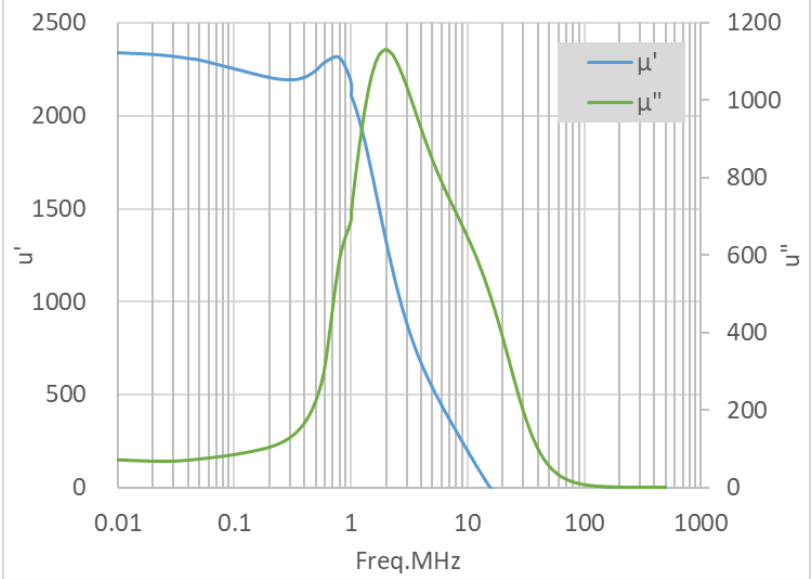
NiZn Ferrite for Coil - NZ200

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Temperature factor of initial permeability x10–6/˚C [20 to 60˚C]	Saturation magnetic flux density Bs(mT)	Remanent flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NZ200	2000±25%	<15[0.01MHz] <50[0.5MHz]	2 to 7	320[4kA/m]	50	20	>10^5	5.1x10^3

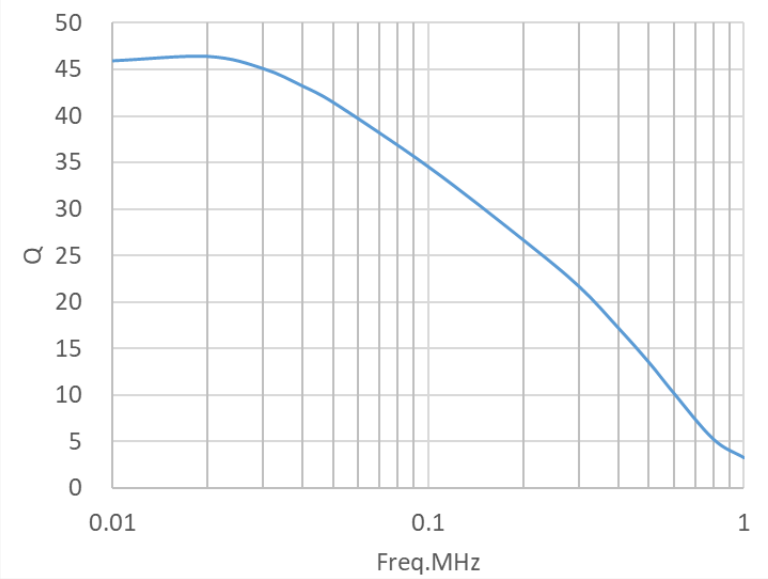
-ui temperature characteristics(Typ.)



-μi frequency characteristics(Typ.)



-Q factor

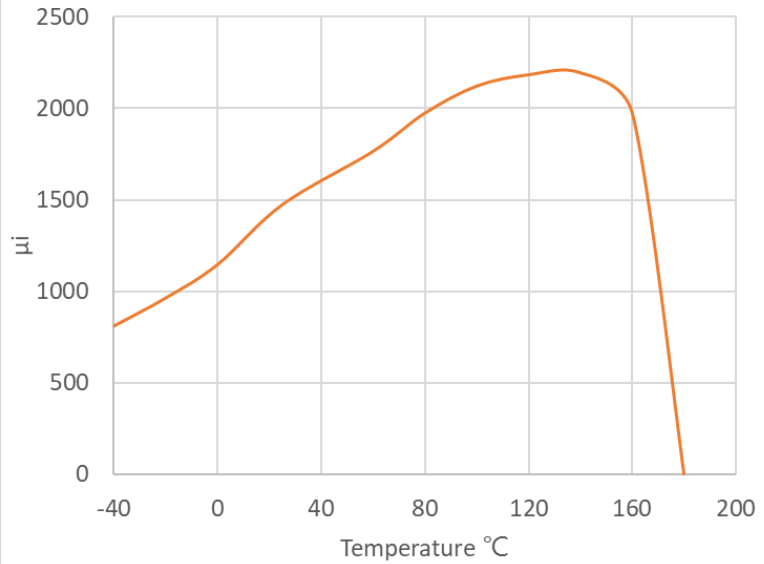


- Molding size: OD/ID=Φ16/ Φ10mm, Green density=3.1 g/cm3
- Sintering program setting: The maximum sintering temperature is 1100 ℃

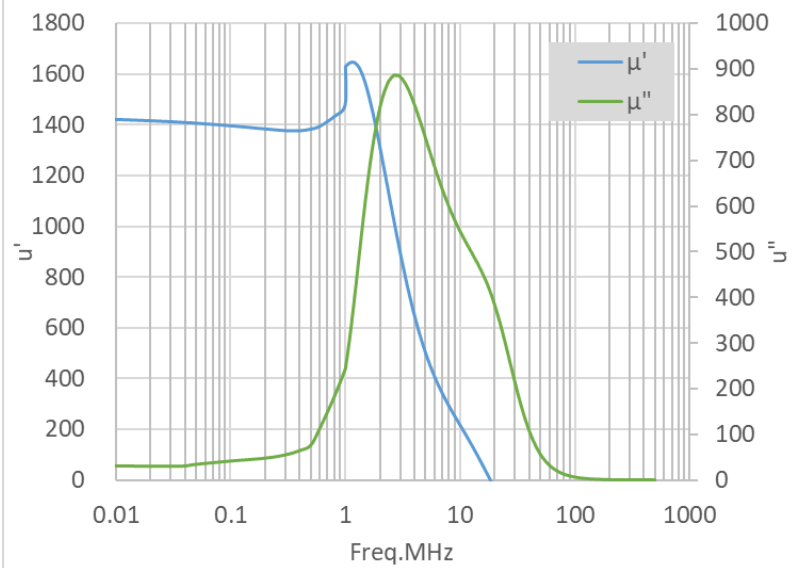
NiZn Ferrite for Coil - NZ150

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Temperature factor of initial permeability x10–6/˚C [20 to 60˚C]	Saturation magnetic flux density Bs(mT)	Remanent flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NZ150	1500±25%	<20[0.01MHz] <35[0.5MHz]	0 to 5	350[4kA/m]	90	10	>10^5	5.1x10^3

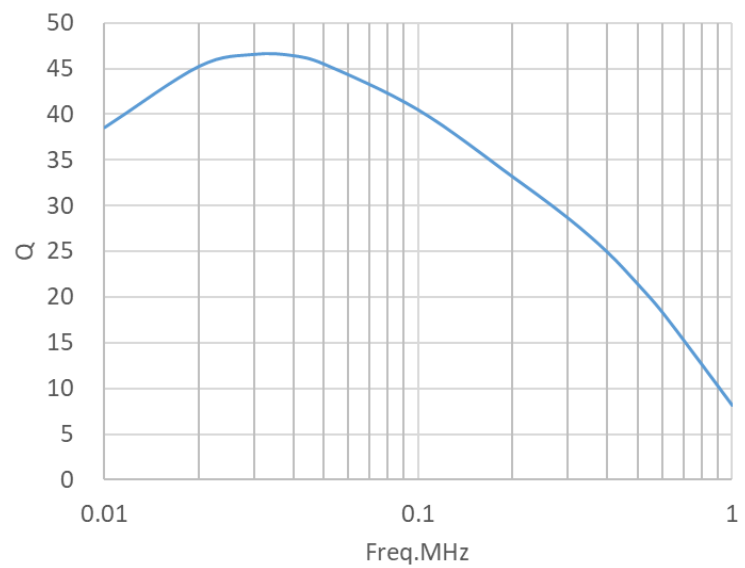
-ui temperature characteristics(Typ.)



-μi frequency characteristics(Typ.)



-Q factor

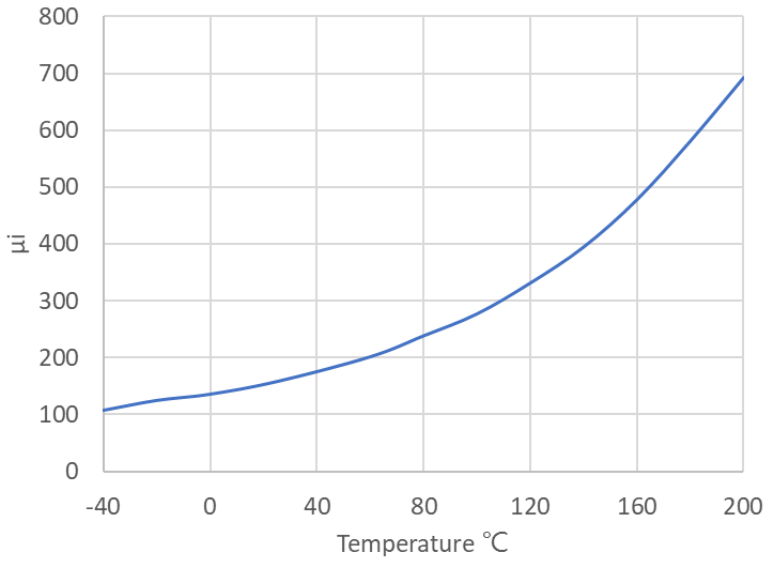


- Molding size: OD/ID=Φ16/ Φ10mm, Green density=3.1 g/cm3
- Sintering program setting: The maximum sintering temperature is 1100 ℃

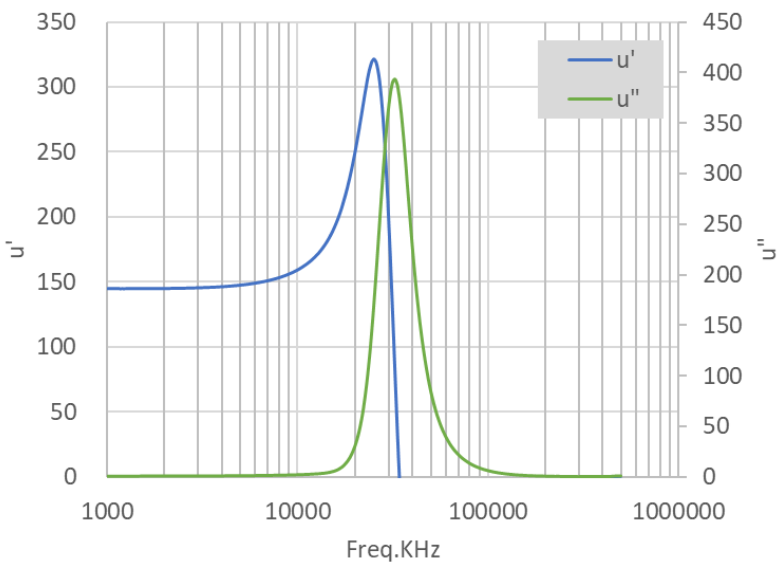
NiZn Ferrite for Coil - NZ15

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Temperature factor of initial permeability x10–6/˚C [20 to 60˚C]	Saturation magnetic flux density Bs (mT)	Remanent flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NZ15	150±25%	<90[10MHz]	15 to 40	400[4kA/m]	250	100	>10^5	5.1x10^3

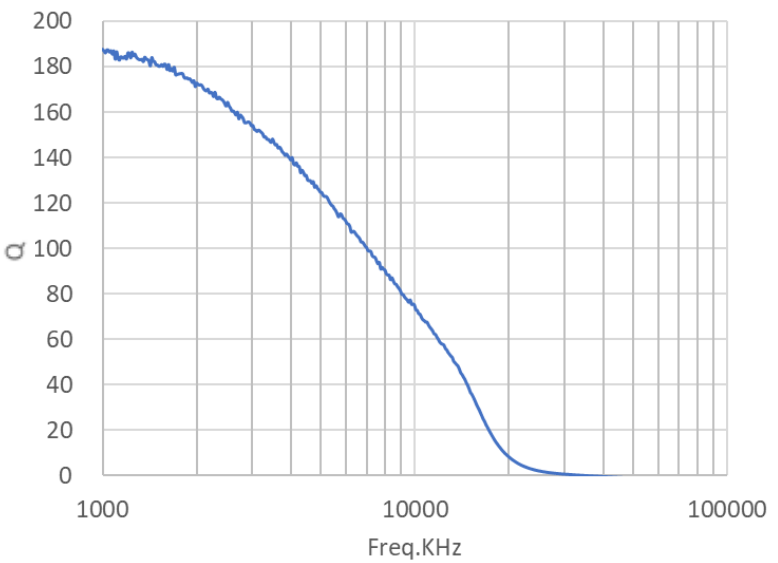
-ui temperature characteristics(Typ.)



-μi frequency characteristics(Typ.)



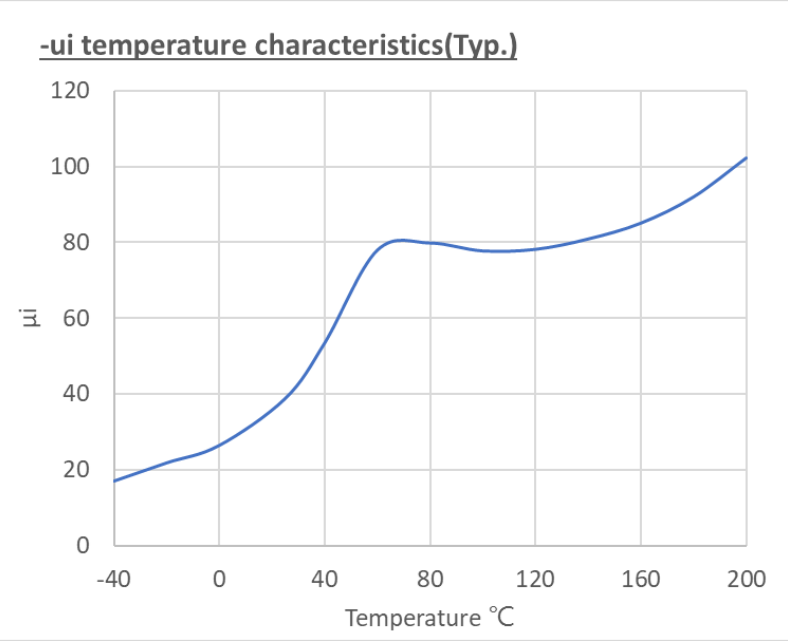
-Q factor

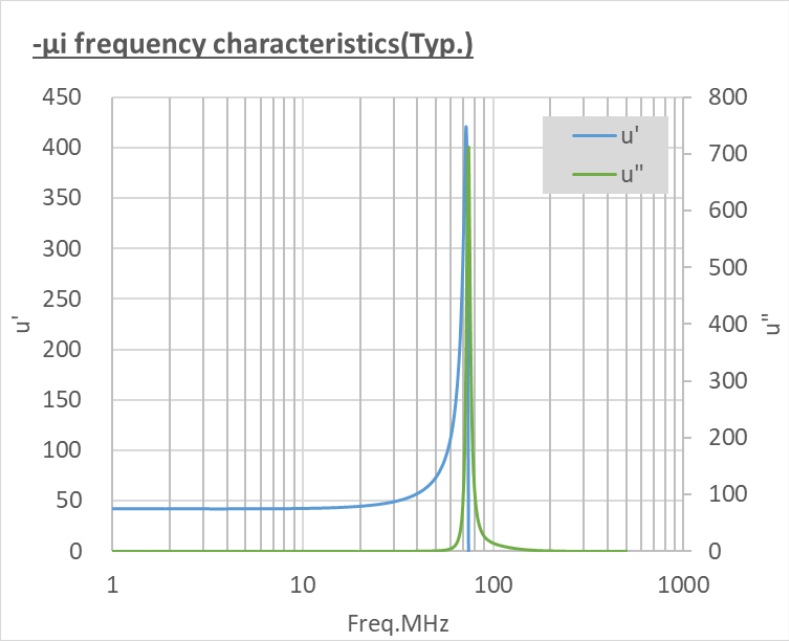


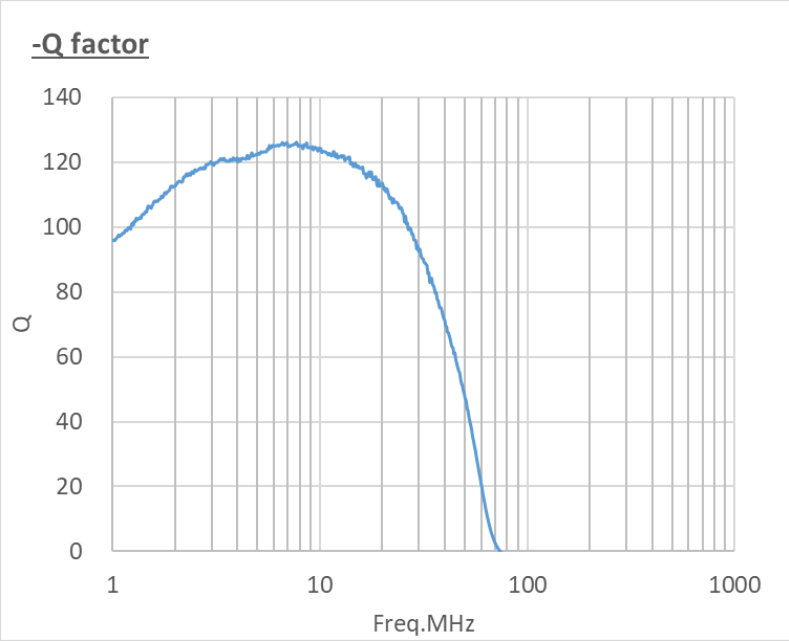
- Molding size: OD/ID=Φ16/ Φ10mm, Green density=3.1 g/cm3
- Sintering program setting: The maximum sintering temperature is 1030 ℃

NiZn Ferrite for Coil - NZ05

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Temperature factor of initial permeability x10–6/˚C [20 to 60˚C]	Saturation magnetic flux density Bs (mT)	Remanent flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NZ05	30-70	<220[30MHz]	-	355[4kA/m]	260	320	>10^5	5.1x10^3







- Molding size: OD/ID=Φ16/ Φ10mm, Green density=3.1 g/cm3
- Sintering program setting: The maximum sintering temperature is 980 ℃

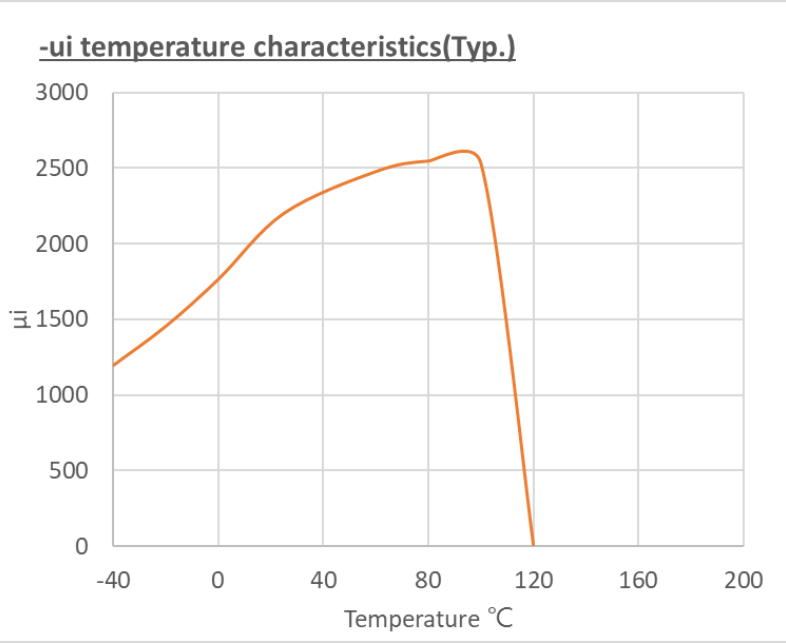
NiZn Ferrite for Coil

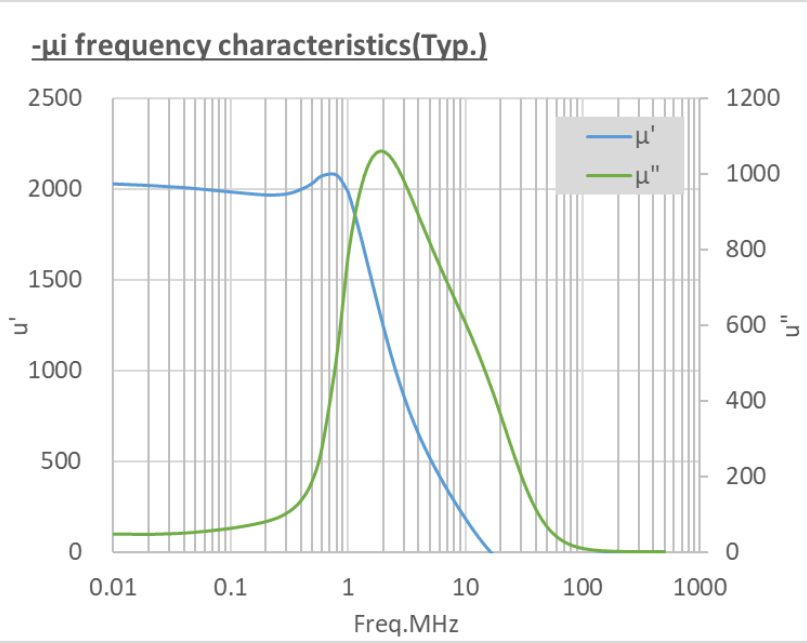
■ Low temperature coefficient

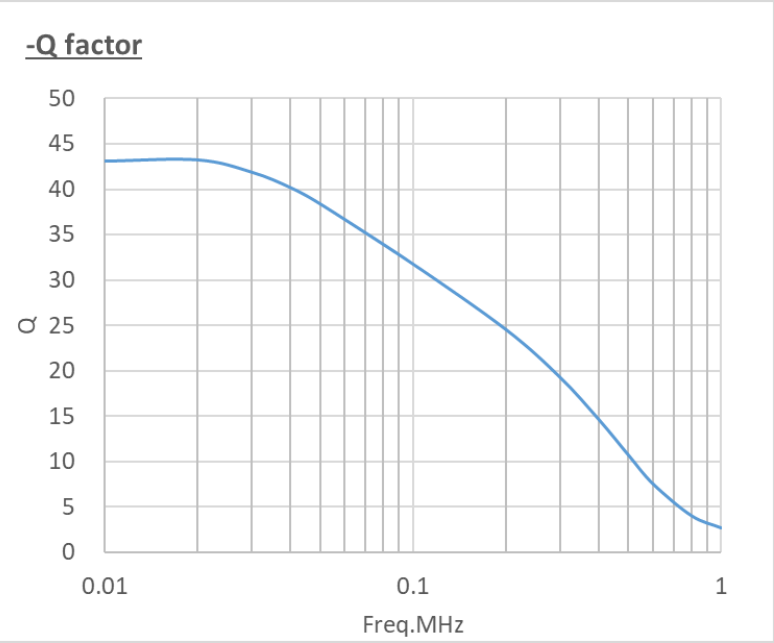
Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Temperature factor of initial permeability x10^{-6}/˚C [20 to 60˚C]	Saturation magnetic flux density Bs (mT)	Remanent flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NLT200	2000±25%	<15[0.01MHz] <55[0.5MHz]	0 to 2	300[4kA/m]	50	20	>10^5	5.1x10^3
NLT150	1500±25%	<30[0.01MHz] <70[0.5MHz]	0 to 2	295[4kA/m]	50	20	10^5	5.0x10^3
NLT120	1200±25%	<20[0.01MHz] <65[0.5MHz]	0 to 2	315[4kA/m]	50	25	>10^5	5.2x10^3
NLT50	500±25%	<100[1.5MHz]	0 to 2	310[1.6kA/m] 330[4kA/m]	150	70	>10^5	5.1x10^3
NLT25	250±25%	<80[1.5MHz]	0 to 2	320[4kA/m]	100	140	>10^5	5.1x10^3
NLT18	180±25%	<120[1.5MHz]	-1 to 2	300[4kA/m]	70	160	>10^5	5.1x10^3

NiZn Ferrite for Coil - NLT200

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Temperature factor of initial permeability x10–6/˚C [20 to 60˚C]	Saturation magnetic flux density Bs(mT)	Remanent flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NLT200	2000±25%	<15[0.01MHz] <55[0.5MHz]	0 to 2	300[4kA/m]	50	20	>10^5	5.1x10^3





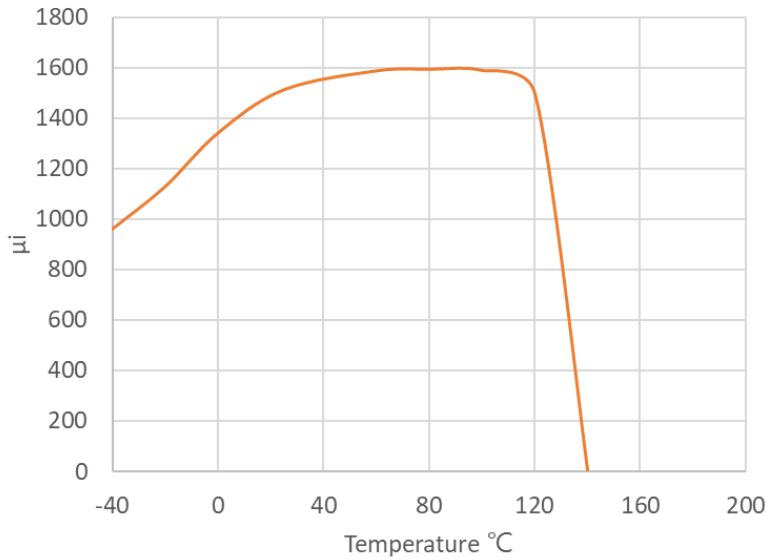


- Molding size: OD/ID=Φ16/ Φ10mm, Green density=3.1 g/cm3
- Sintering program setting: The maximum sintering temperature is 1100 ℃

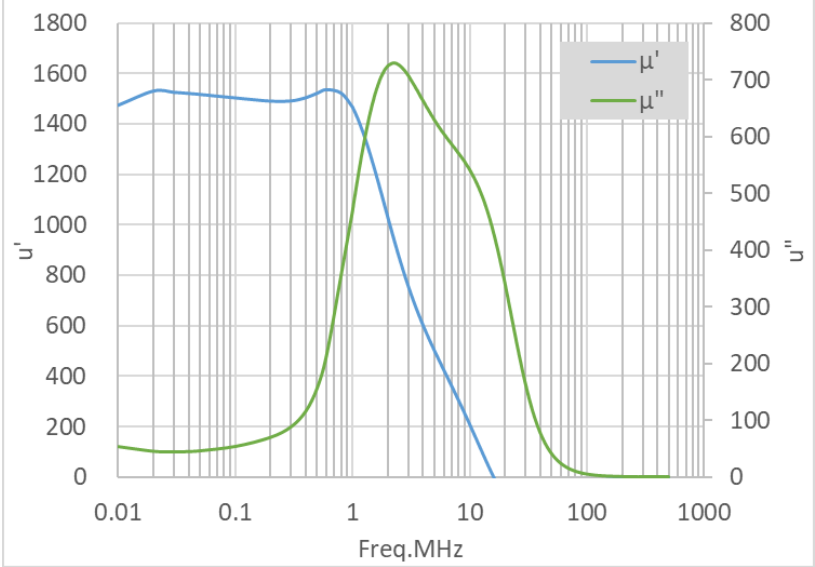
NiZn Ferrite for Coil - NLT150

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Temperature factor of initial permeability x10^{-6}/˚C [20 to 60˚C]	Saturation magnetic flux density Bs(mT)	Remanent flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NLT150	1500±25%	<30[0.01MHz] <70[0.5MHz]	0 to 2	295[4kA/m]	50	20	10^5	5.0x10^3

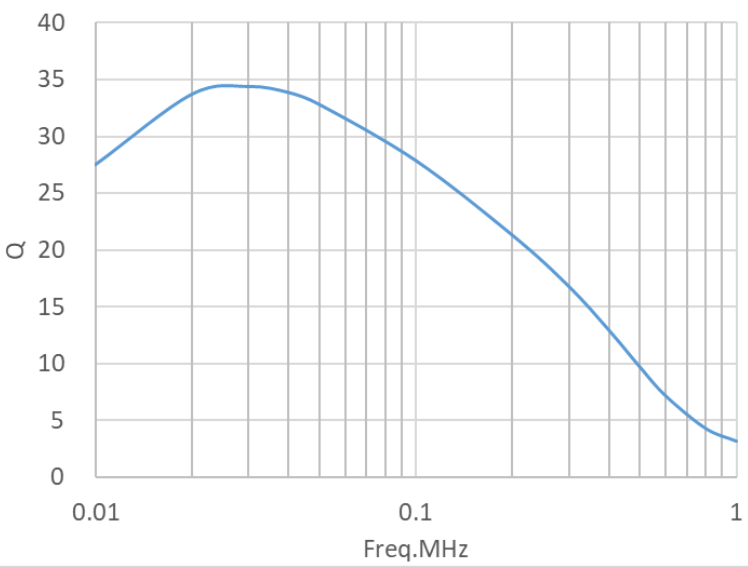
-ui temperature characteristics(Typ.)



-μi frequency characteristics(Typ.)



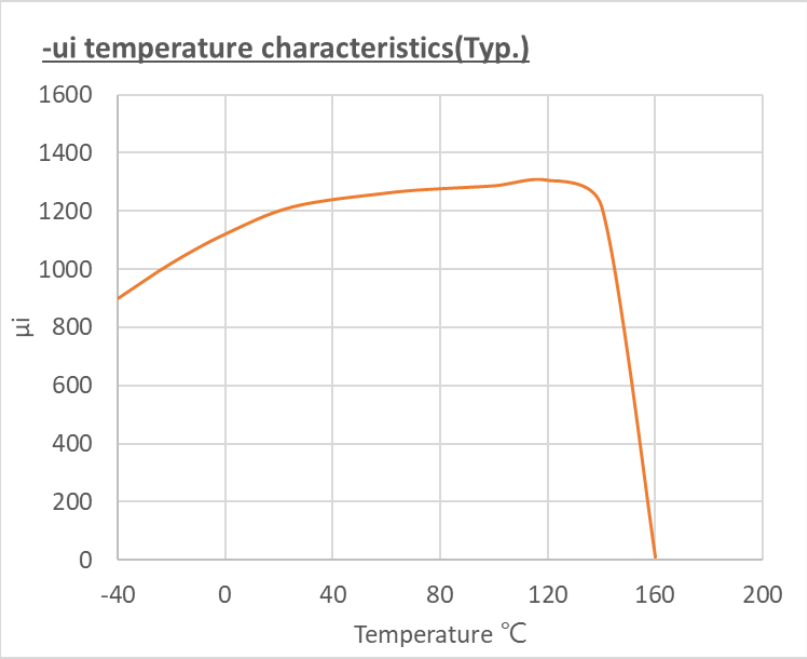
-Q factor

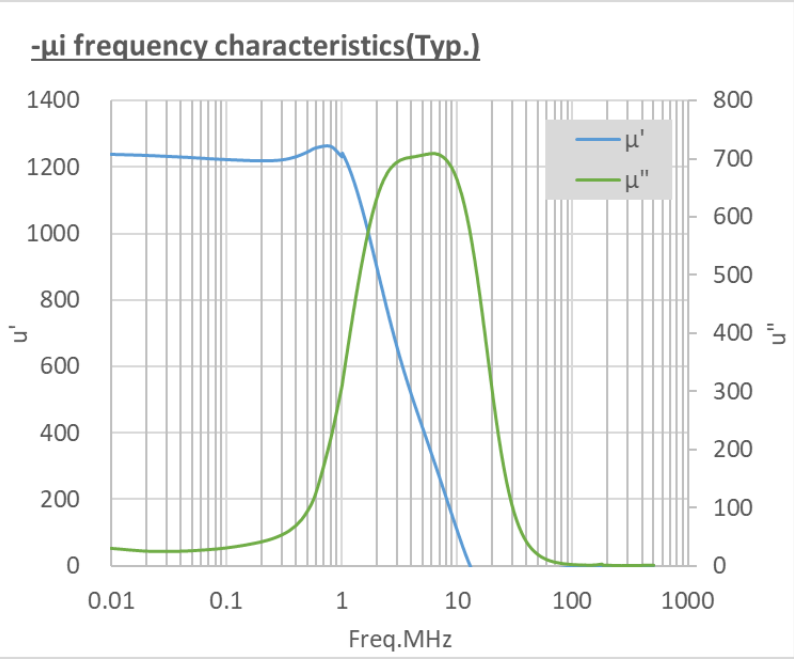


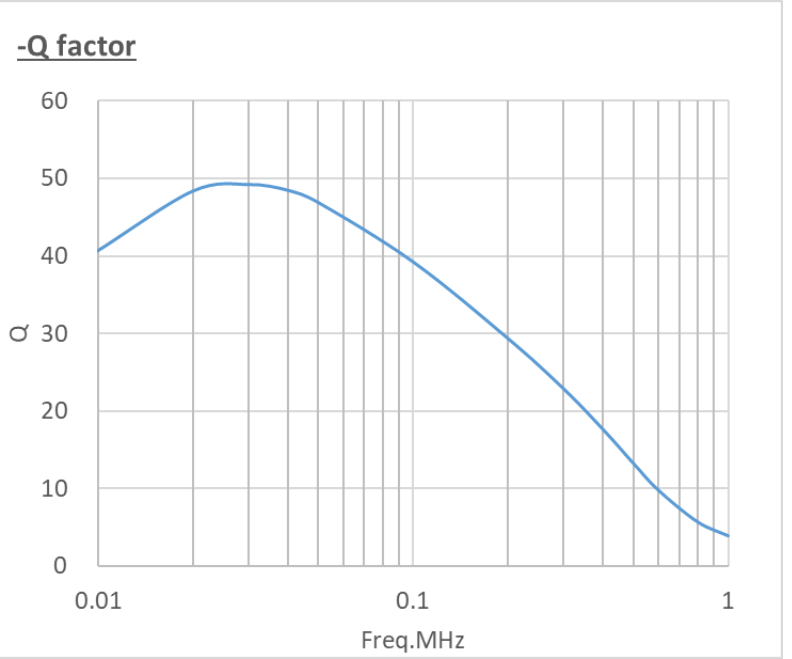
- Molding size: OD/ID=Φ16/ Φ10mm, Green density=3.1 g/cm3
- Sintering program setting: The maximum sintering temperature is 1140 ℃

NiZn Ferrite for Coil - NLT120

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Temperature factor of initial permeability x10^{-6}/˚C [20 to 60˚C]	Saturation magnetic flux density Bs(mT)	Remanent flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NLT120	1200±25%	<20[0.01MHz] <65[0.5MHz]	0 to 2	315[4kA/m]	50	25	>10^5	5.2x10^3





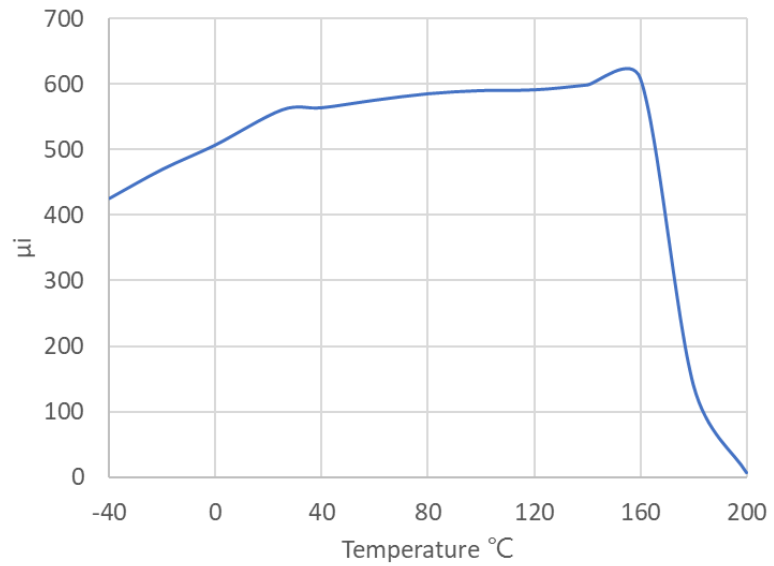


- Molding size: OD/ID=Φ16/ Φ10mm, Green density=3.1 g/cm3
- Sintering program setting: The maximum sintering temperature is 1140 ℃

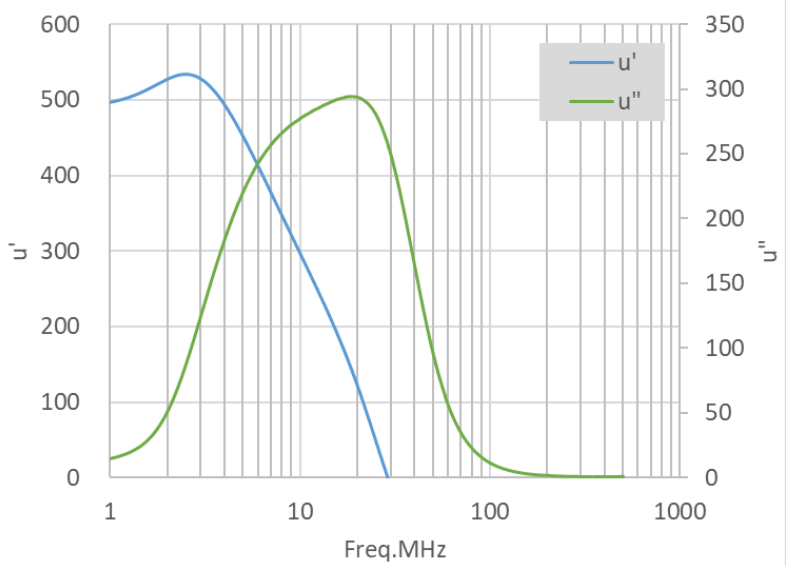
NiZn Ferrite for Coil - NLT50

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Temperature factor of initial permeability x10^{-6}/˚C [20 to 60˚C]	Saturation magnetic flux density Bs(mT)	Remanent flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NLT50	500±25%	<100[1.5MHz]	0 to 2	310[1.6kA/m] 330[4kA/m]	150	70	>10^5	5.1x10^3

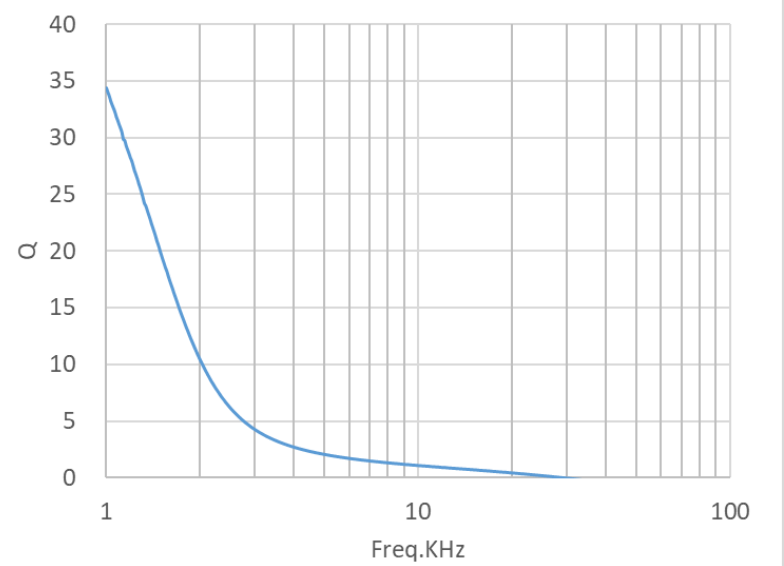
-ui temperature characteristics(Typ.)



-μi frequency characteristics(Typ.)



-Q factor

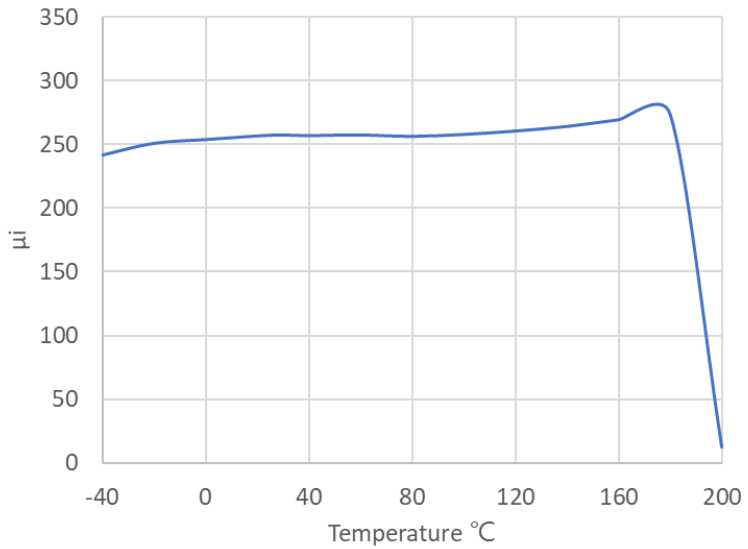


- Molding size: OD/ID=Φ16/ Φ10mm, Green density=3.1 g/cm3
- Sintering program setting: The maximum sintering temperature is 1000 ℃

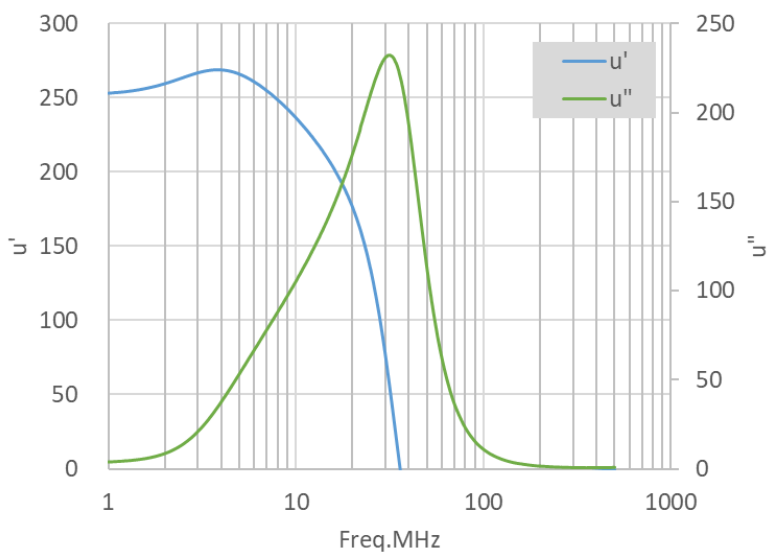
NiZn Ferrite for Coil - NLT25

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Temperature factor of initial permeability x10^{-6}/˚C [20 to 60˚C]	Saturation magnetic flux density Bs(mT)	Remanent flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NLT25	250±25%	<80[1.5MHz]	0 to 2	320[4kA/m]	100	140	>10^5	5.1x10^3

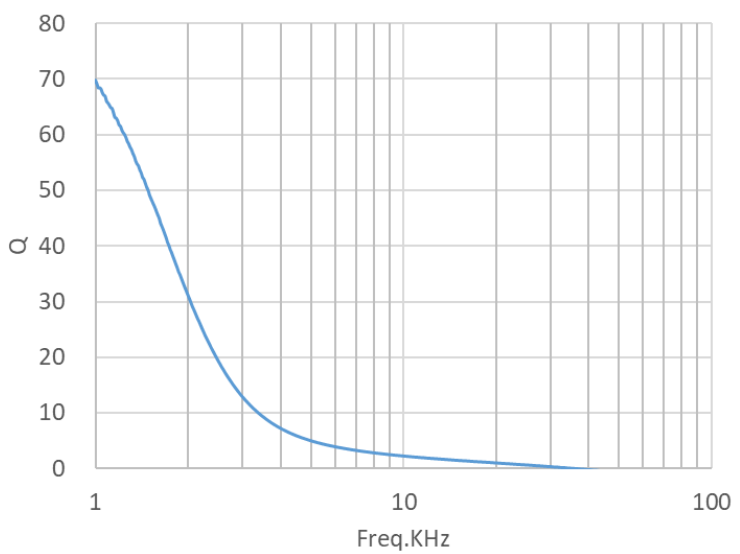
-ui temperature characteristics(Typ.)



-μi frequency characteristics(Typ.)



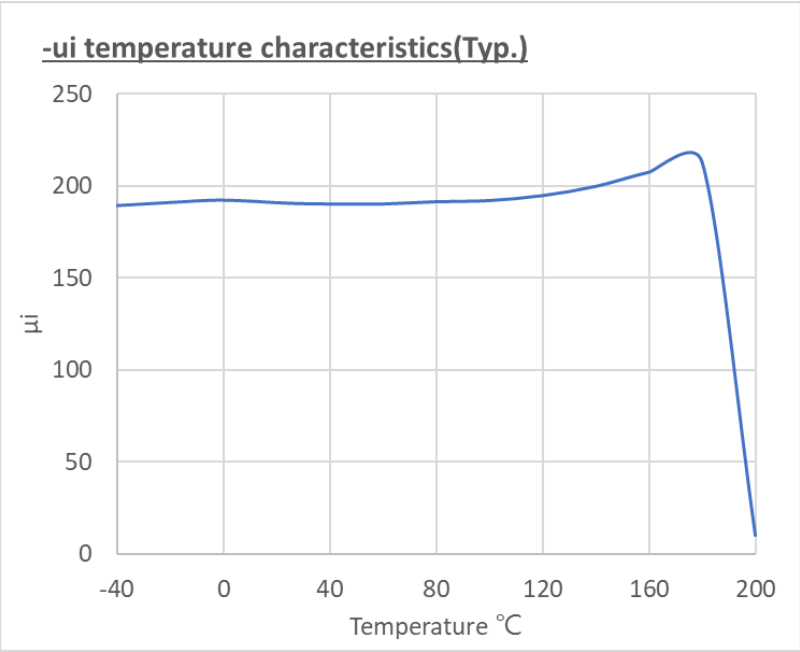
-Q factor

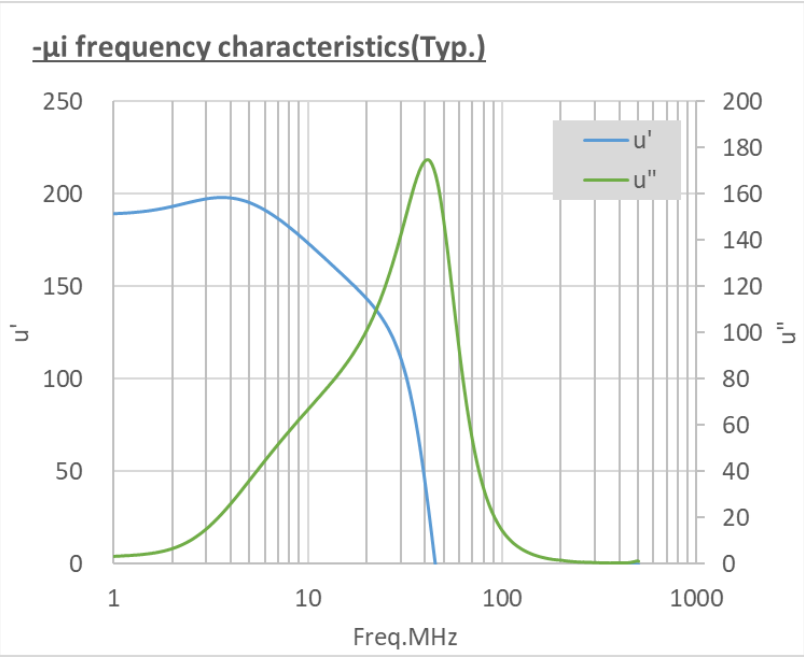


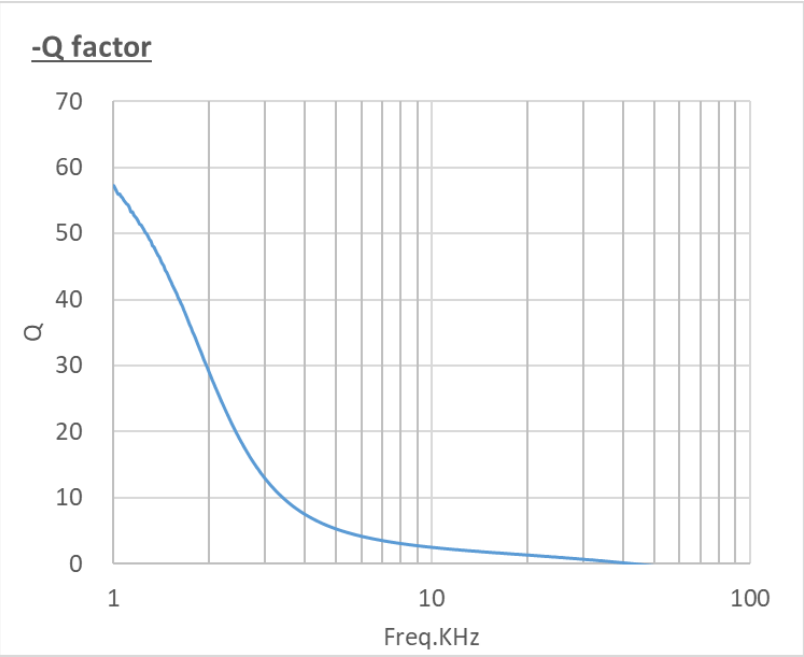
- Molding size: OD/ID=Φ16/ Φ10mm, Green density=3.1 g/cm3
- Sintering program setting: The maximum sintering temperature is 1000 ℃

NiZn Ferrite for Coil - NLT18

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Temperature factor of initial permeability x10^{-6}/°C [20 to 60°C]	Saturation magnetic flux density Bs(mT)	Remanent flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NLT18	180±25%	<120[1.5MHz]	-1 to 2	300[4kA/m]	70	160	>10^5	5.1x10^3







- Molding size: OD/ID=Φ16/ Φ10mm, Green density=3.1 g/cm3
- Sintering program setting: The maximum sintering temperature is 1050 ℃

NiZn Ferrite for Coil

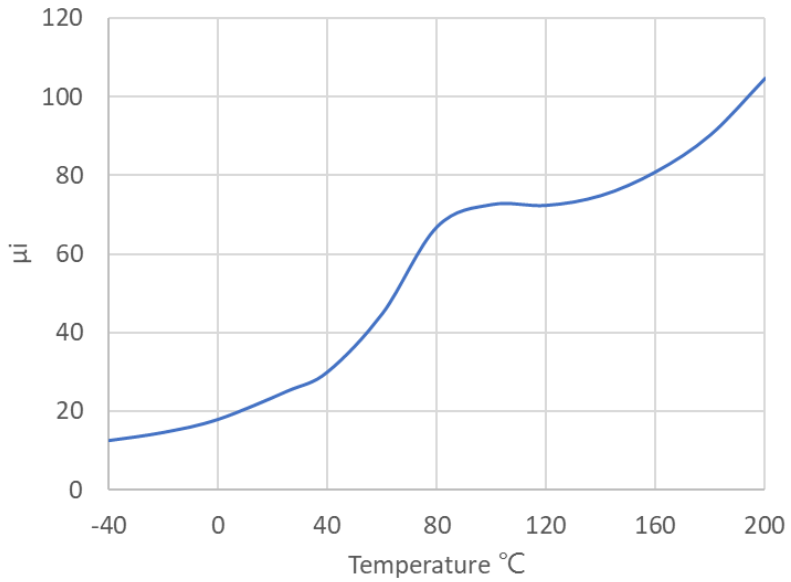
■ High Q

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Temperature factor of initial permeability x10^{-6}/˚C [20 to 60˚C]	Saturation magnetic flux density Bs (mT)	Remanent flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NQ02	15-30	<520[80MHz]	-	330[4kA/m]	270	520	>10^5	5.1x10^3

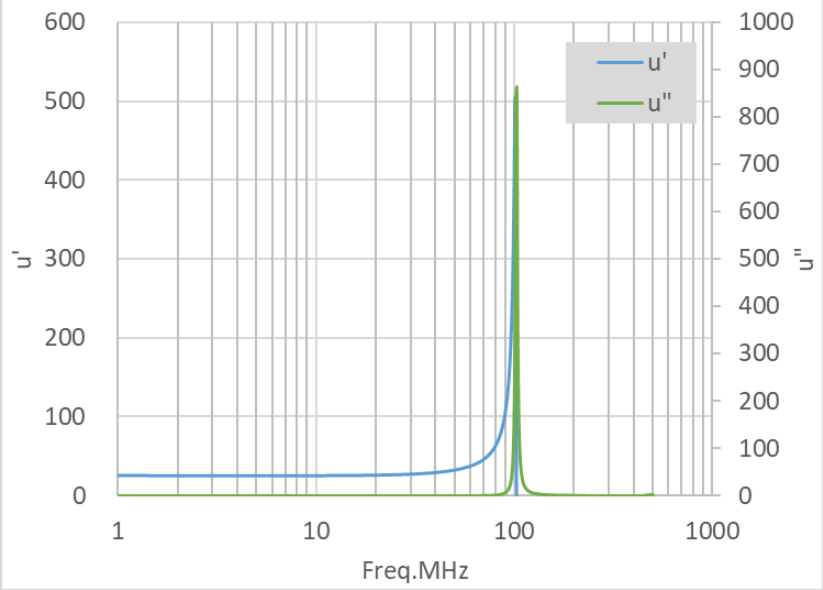
NiZn Ferrite for Coil - NQ02

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Temperature factor of initial permeability x10^{-6}/˚C [20 to 60˚C]	Saturation magnetic flux density Bs (mT)	Remanent flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NQ02	15-30	<520[80MHz]	-	330[4kA/m]	270	520	>10^5	5.1x10^3

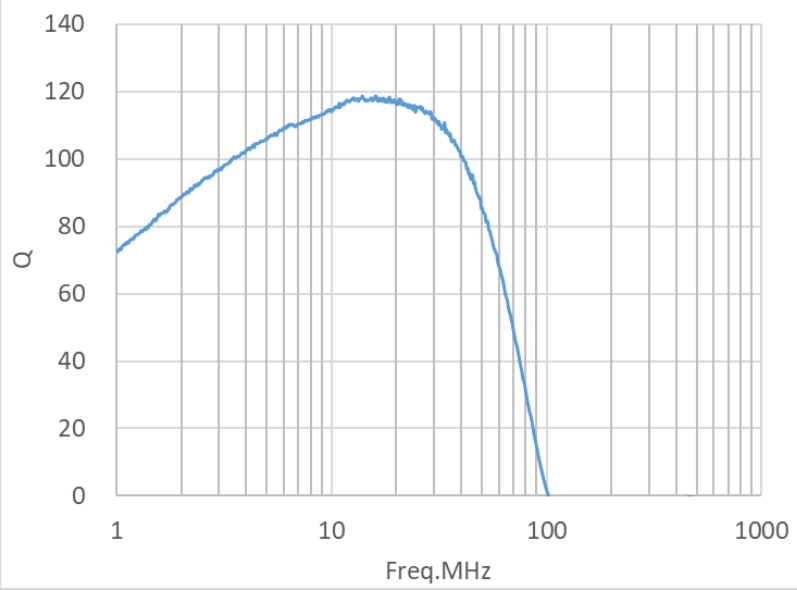
-ui temperature characteristics(Typ.)



-μi frequency characteristics(Typ.)



-Q factor



- Molding size: OD/ID=Φ16/ Φ10mm, Green density=3.1 g/cm3
- Sintering program setting: The maximum sintering temperature is 1000℃

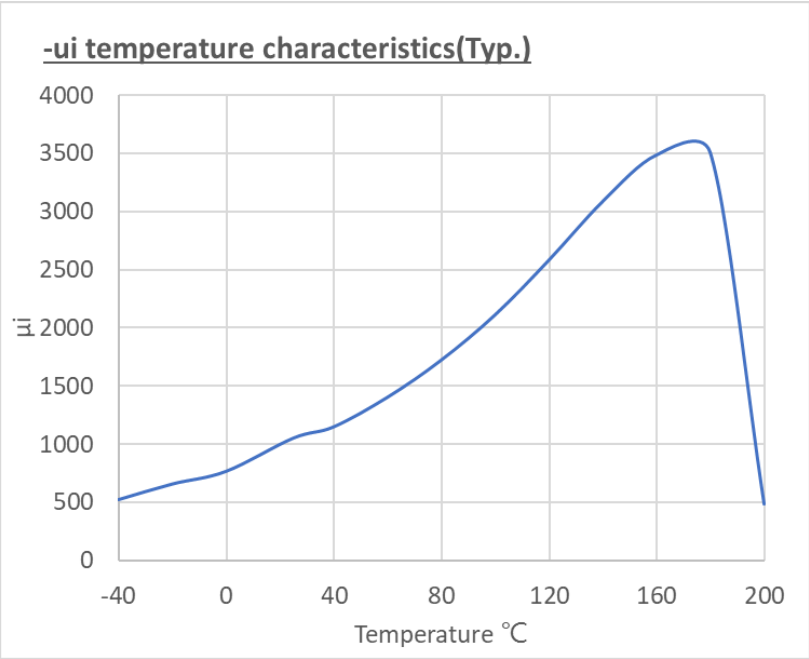
NiZn Ferrite for Coil

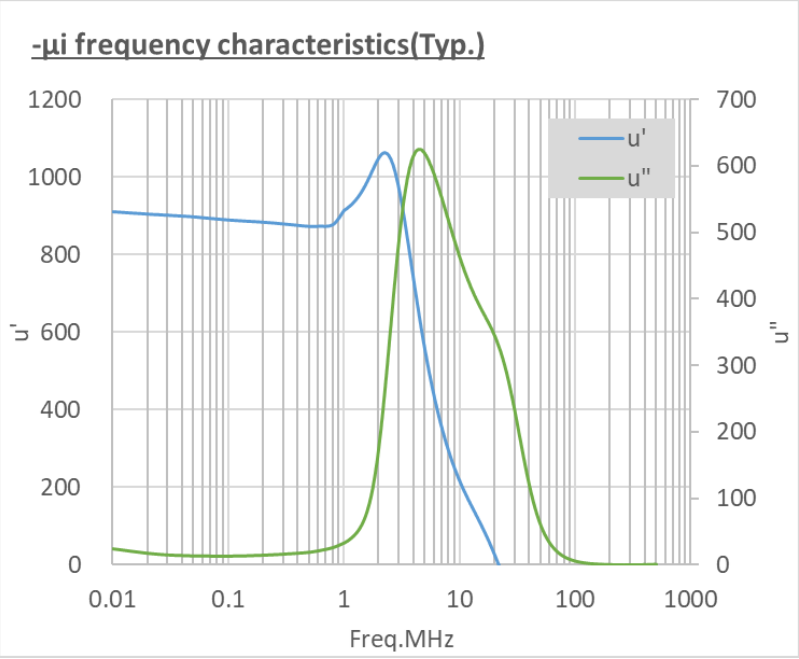
■ High Bs

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Temperature factor of initial permeability x10^{-6}/˚C [20 to 60˚C]	Saturation magnetic flux density Bs (mT)	Remanent flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NB80	700±25%	<30[0.1MHz] <90[1MHz]	10 to 20	385[4kA/m]	240	30	>10^5	5.1x10^3
NB50	500±25%	<40[0.1MHz] <60[1MHz]	10 to 20	400[4kA/m]	275	85	>10^5	5.1x10^3
NB35A	350±25%	<20[0.1MHz] <20[1MHz]	30 to 40	400[4kA/m]	280	35	>10^5	5.1x10^3
NB25A	250±25%	<30[1MHz] <50[3MHz]	30 to 40	400[4kA/m]	180	35	>10^5	5.1x10^3

NiZn Ferrite for Coil - NB80

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Temperature factor of initial permeability x10^{-6}/˚C [20 to 60˚C]	Saturation magnetic flux density Bs (mT)	Remanent flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NB80	700±25%	<30[0.1MHz] <90[1MHz]	10 to 20	385[4kA/m]	240	30	>10^5	5.1x10^3

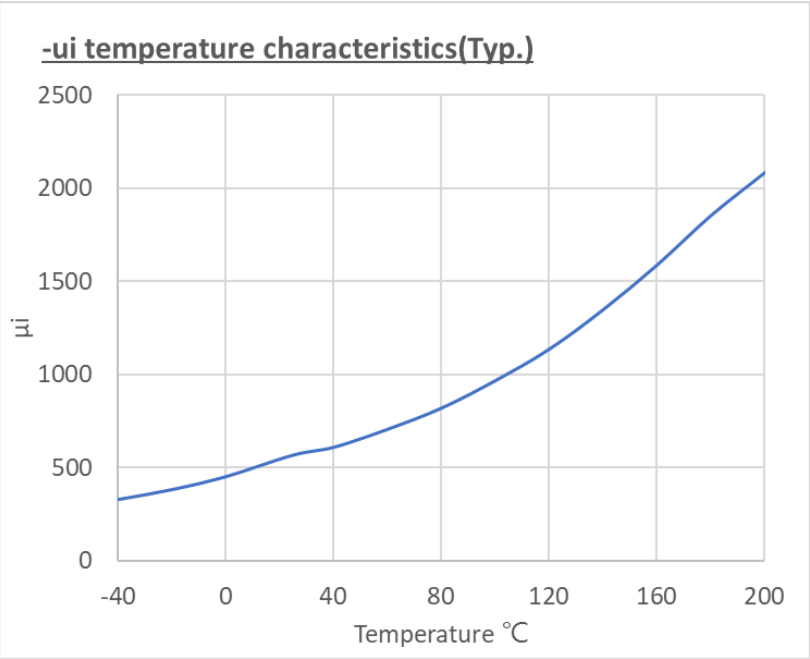


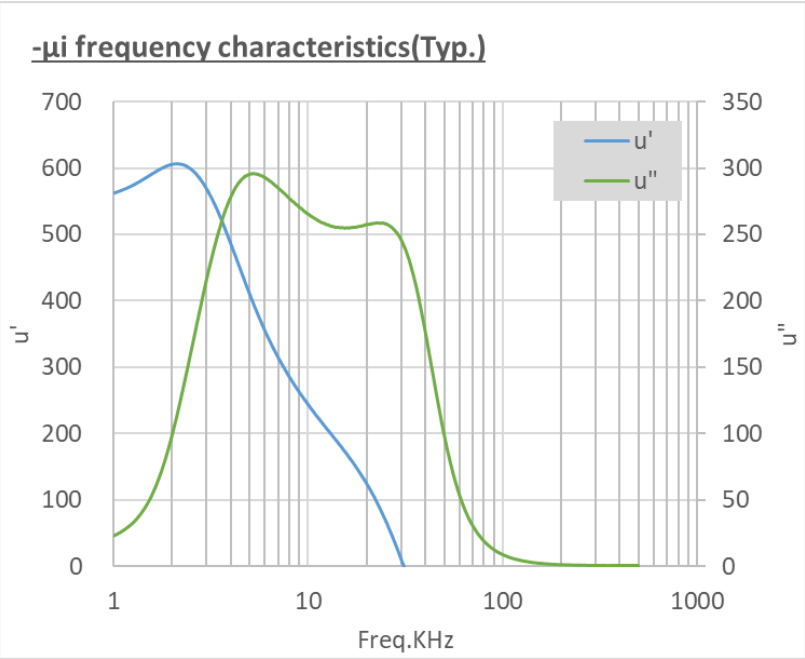


- Molding size: OD/ID=Φ16/ Φ10mm, Green density=3.1 g/cm3
- Sintering program setting: The maximum sintering temperature is 1140 ℃

NiZn Ferrite for Coil - NB50

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Temperature factor of initial permeability x10^{-6}/˚C [20 to 60˚C]	Saturation magnetic flux density Bs (mT)	Remanent flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NB50	500±25%	<40[0.1MHz] <60[1MHz]	10 to 20	400[4kA/m]	275	85	>10^5	5.1x10^3

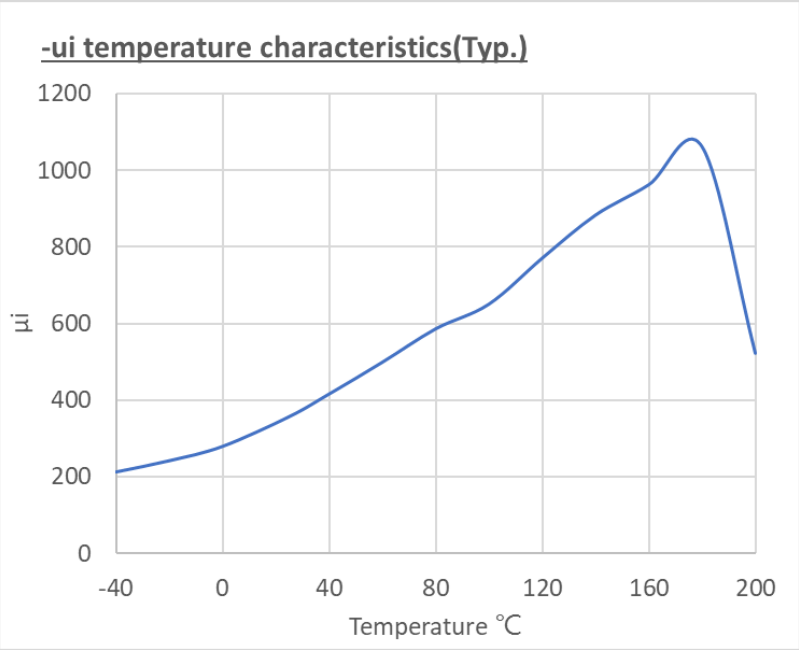


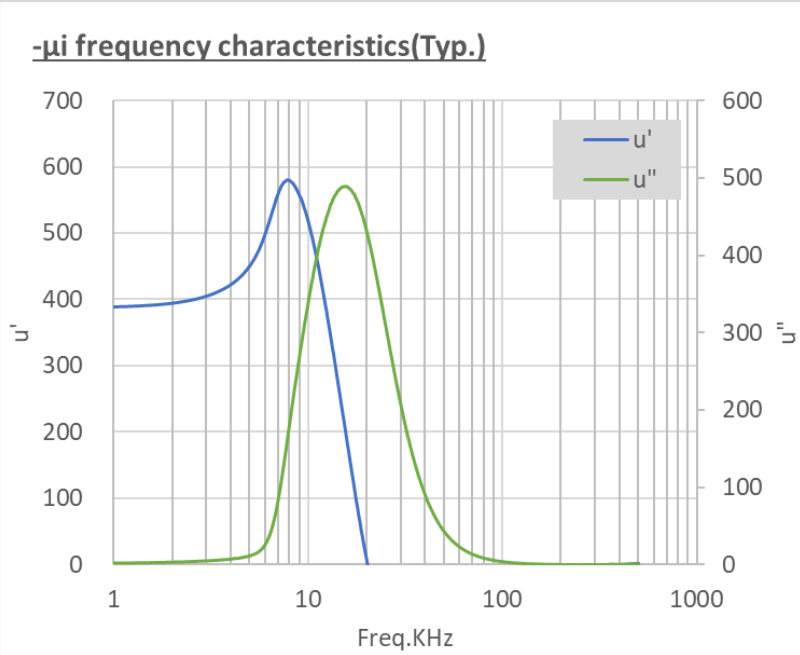


- Molding size: OD/ID=Φ16/ Φ10mm, Green density=3.1 g/cm3
- Sintering program setting: The maximum sintering temperature is 1050 ℃

NiZn Ferrite for Coil - NB35A

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Temperature factor of initial permeability x10^{-6}/˚C [20 to 60˚C]	Saturation magnetic flux density Bs (mT)	Remanent flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NB35A	350±25%	<20[0.1MHz] <20[1MHz]	30 to 40	400[4kA/m]	280	35	>10^5	5.1x10^3

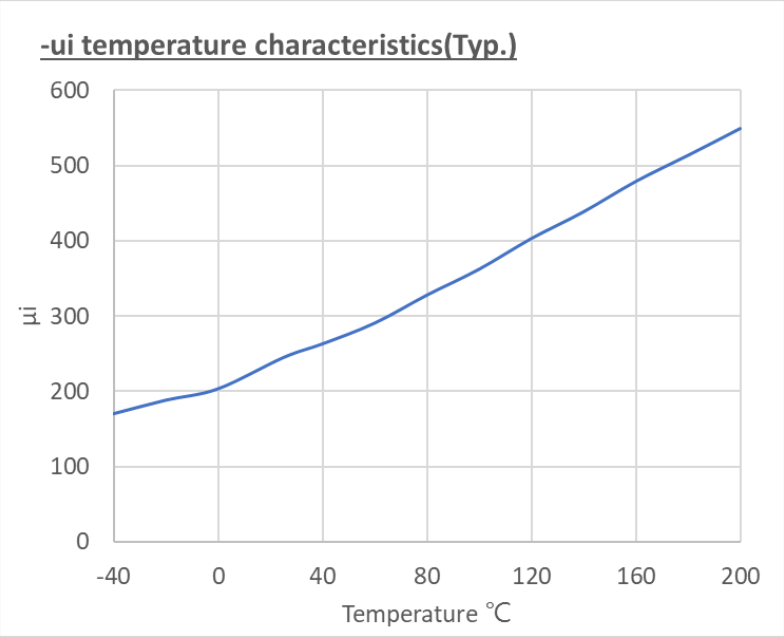


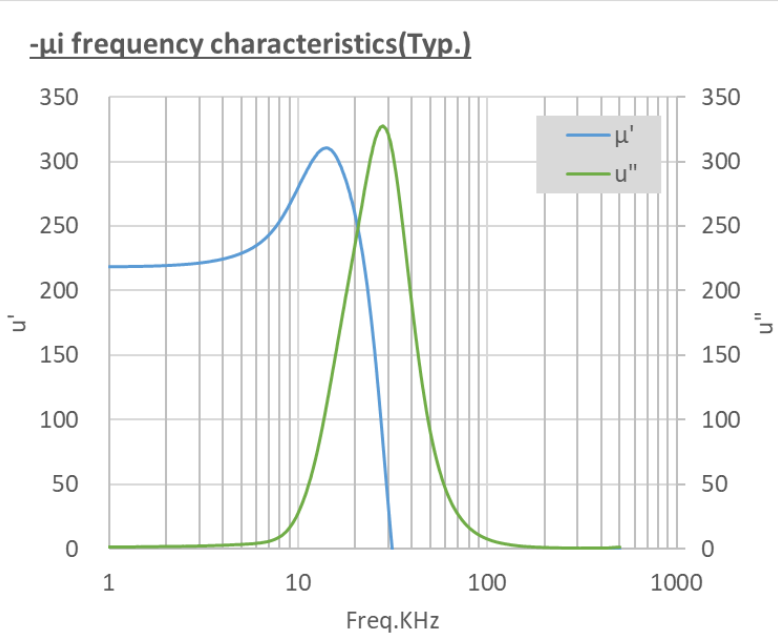


- Molding size: OD/ID=Φ16/ Φ10mm, Green density=3.1 g/cm3
- Sintering program setting: The maximum sintering temperature is 1000℃

NiZn Ferrite for Coil - NB25A

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Temperature factor of initial permeability x10^{-6}/˚C [20 to 60˚C]	Saturation magnetic flux density Bs (mT)	Remanent flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NB25A	250±25%	<30[1MHz] <50[3MHz]	30 to 40	400[4kA/m]	180	35	>10^5	5.1x10^3





- Molding size: OD/ID=Φ16/ Φ10mm, Green density=3.1 g/cm3
- Sintering program setting: The maximum sintering temperature is 1000 ℃

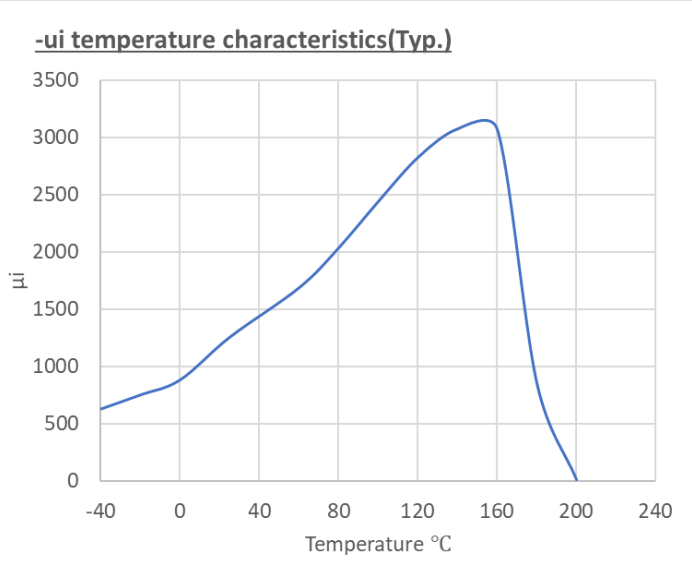
NiZn Ferrite for Coil

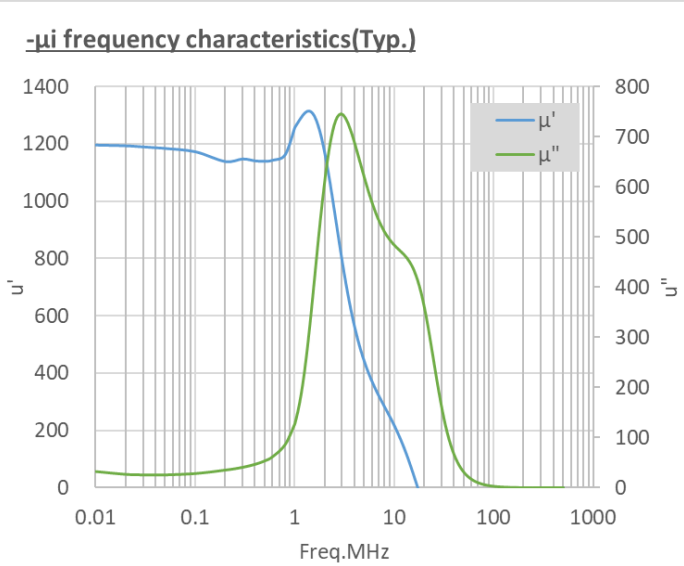
■ Low loss

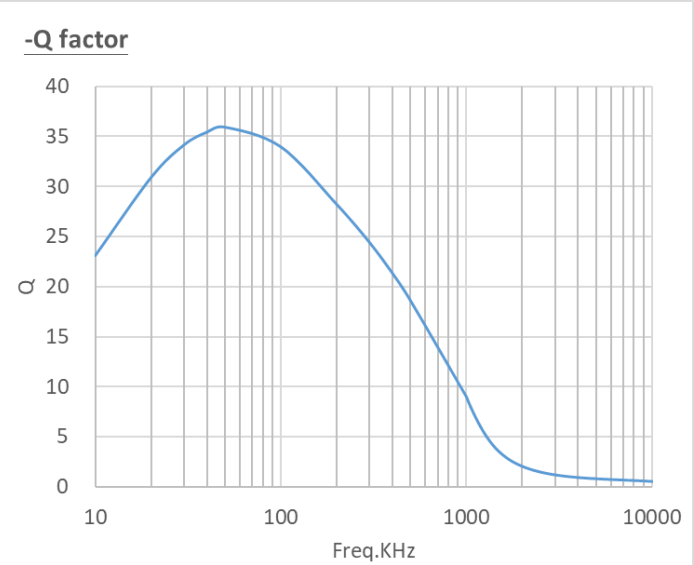
Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Saturation magnetic flux density Bs (mT)	Br (mT)/Hc (A/m)	Pv (kW/m3)	resistivity (Ω-m)	Density (kg/m3)
NF120	1200±25%	<30[0.01MHz] <50[0.5MHz]	360[4kA/m]	140/10	400 (100K/100mT/25℃) 1000 (500K/50mT/25℃) 400 (1000K/20mT/25℃) 640 (3000K/10mT/25℃) 360 (5000K/5mT/25℃)	>10^5	5.2x10^3
NF25	250±25%	<40[1MHz] <60[5MHz]	390[4kA/m]	290/105	200 (1000K/30mT/25℃) 40 (3000K/10mT/25℃) 30 (5000K/5mT/25℃)	>10^5	5.1x10^3
NF17	170±25%	<50[1MHz] <60[5MHz] <80[10MHz]	400[4kA/m]	270/130	300 (1000K/30mT/25℃) 50 (3000K/10mT/25℃) 30 (5000K/5mT/25℃)	>10^5	5.2x10^3

NiZn Ferrite for Coil - NF120

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Saturation magnetic flux density Bs (mT)	Br (mT)/Hc (A/m)	Pv (kW/m3)	resistivity (Ω-m)	Density (kg/m3)
NF120	1200±25%	<30[0.01MHz] <50[0.5MHz]	360[4kA/m]	140/10	400 (100K/100mT/25℃) 1000 (500K/50mT/25℃) 400 (1000K/20mT/25℃) 640 (3000K/10mT/25℃) 360 (5000K/5mT/25℃)	>10^5	5.2x10^3



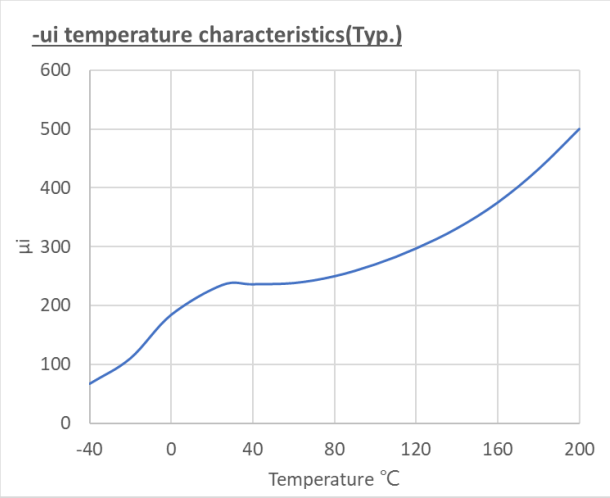


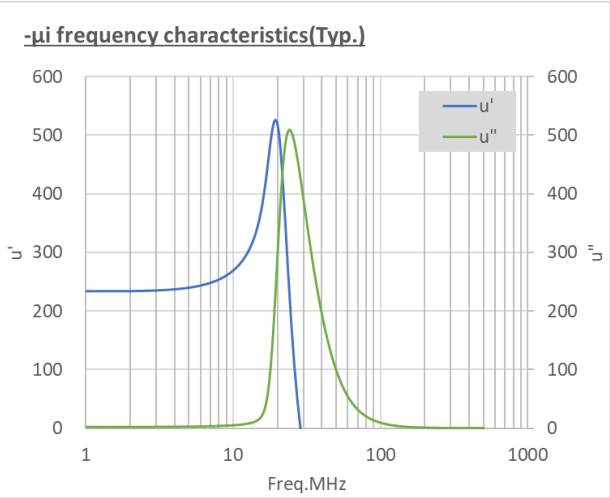


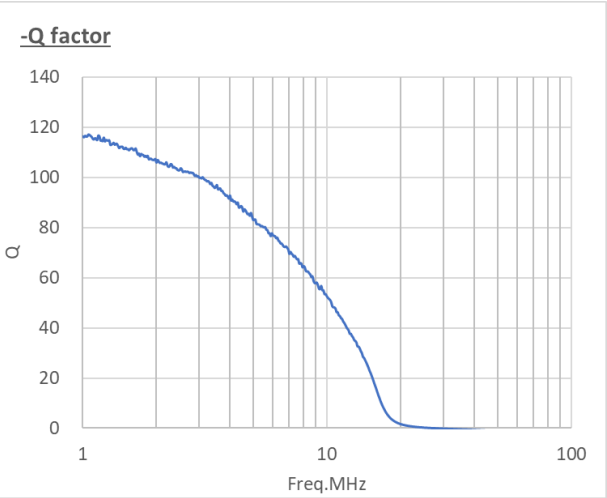
- Molding size: OD/ID=Φ16/ Φ10mm, Green density=3.1 g/cm3
- Sintering program setting: The maximum sintering temperature is 1040 ℃

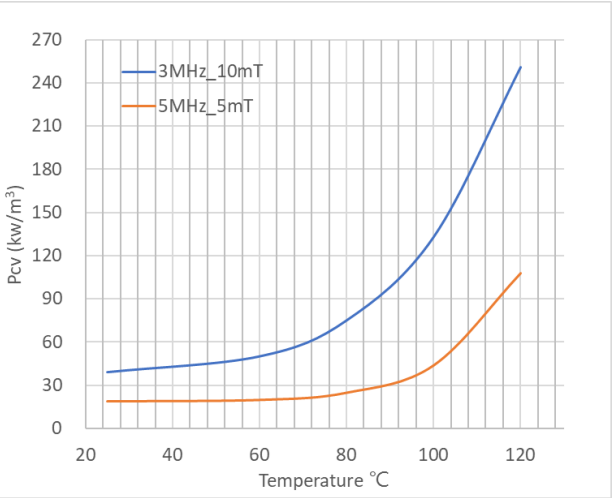
NiZn Ferrite for Coil - NF25

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Saturation magnetic flux density Bs (mT)	Br (mT)/Hc (A/m)	Pv (kW/m3)	resistivity (Ω-m)	Density (kg/m3)
NF25	250±25%	<40[1MHz] <60[5MHz]	390[4kA/m]	290/105	200 (1000K/30mT/25℃) 40 (3000K/10mT/25℃) 30 (5000K/5mT/25℃)	>10^5	5.1x10^3





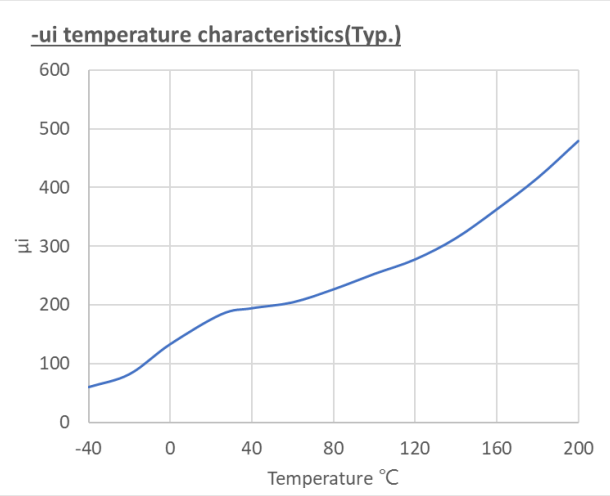


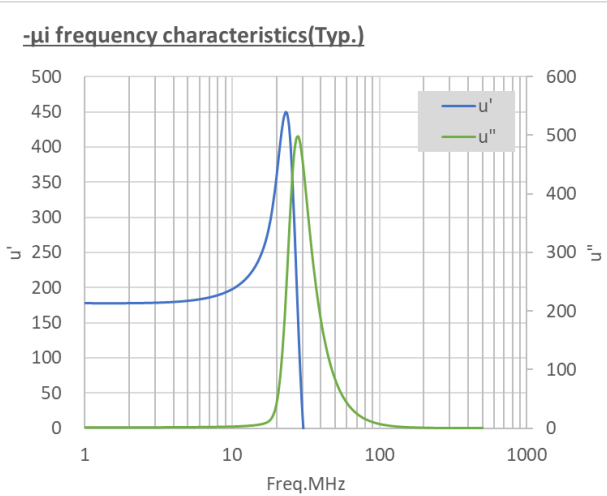


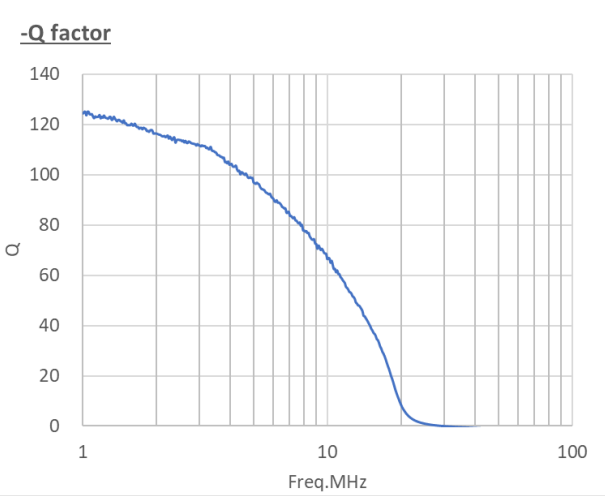
- Molding size: OD/ID=Φ16/ Φ10mm, Green density=3.1 g/cm3
- Sintering program setting: The maximum sintering temperature is 960 ℃

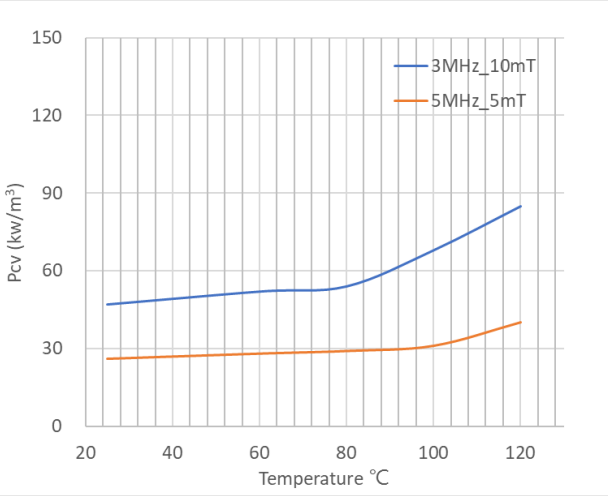
NiZn Ferrite for Coil - NF17

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Saturation magnetic flux density Bs (mT)	Br (mT)/Hc (A/m)	Pv (kW/m3)	resistivity (Ω-m)	Density (kg/m3)
NF17	170±25%	<50[1MHz] <60[5MHz] <80[10MHz]	400[4kA/m]	270/130	300 (1000K/30mT/25℃) 50 (3000K/10mT/25℃) 30 (5000K/5mT/25℃)	>10^5	5.1x10^3









- Molding size: OD/ID=Φ16/ Φ10mm, Green density=3.1 g/cm3
- Sintering program setting: The maximum sintering temperature is 960 ℃

NiZn Ferrite for Coil

■ Stress-insensitive

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Temperature factor of initial permeability x10^{-6}/˚C [20 to 60˚C]	Inductance drop rate Stress=10MPa %	Saturation magnetic flux density Bs (mT)	Remanent Flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NS20	200±25%	<75[0.1MHz] <100[1MHz]	0 to 2	<5	300[4kA/m]	75	150	>10^5	5.1x10^3

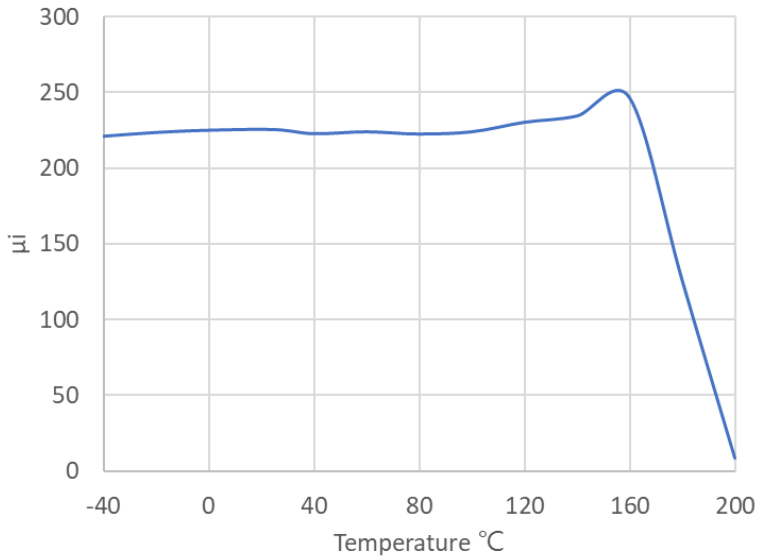
■ Wireless charging

Recommended Material	Real permeability u' @6.78MHz	Imaginary permeability u" @6.78MHz	Initial permeability u' @13.56MHz	Imaginary permeability u" @13.56MHz	Saturation magnetic flux density Bs(mT)	Remanent Flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NE25	250±25%	3.5 MAX	320±25%	10 MAX	390[4kA/m]	290	105	>10^5	5.0x10^3
NE18	180±25%	2 MAX	220±25%	5.5 MAX	380[4kA/m]	280	130	>10^5	5.0x10^3
NE18A	180±25%	2.5 MAX	220±25%	5 MAX	385[4kA/m]	265	130	>10^5	5.0x10^3
NE14	140±25%	2 MAX	170±25%	3 MAX	370[4kA/m]	280	165	>10^5	5.0x10^3
NE09	90±25%	1 MAX	100±25%	1 MAX	380[4kA/m]	280	235	>10^5	5.0x10^3

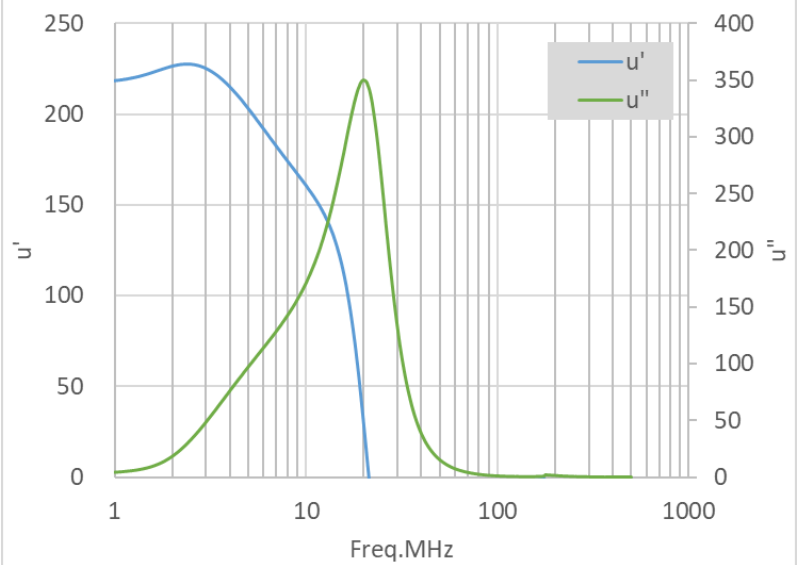
NiZn Ferrite for Coil - NS20

Recommended Material	Initial permeability ui	Relative loss foctor tanδ/ui x10^{-6}	Temperature factor of initial permeability x10^{-6}/°C [20 to 60°C]	Inductance drop rate Stress=10MPa %	Saturation magnetic flux density Bs(mT)	Remanent Flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NS20	200±25%	<75[0.1MHz] <100[1MHz]	0 to 2	<5	300[4kA/m]	75	150	>10^5	5.1x10^3

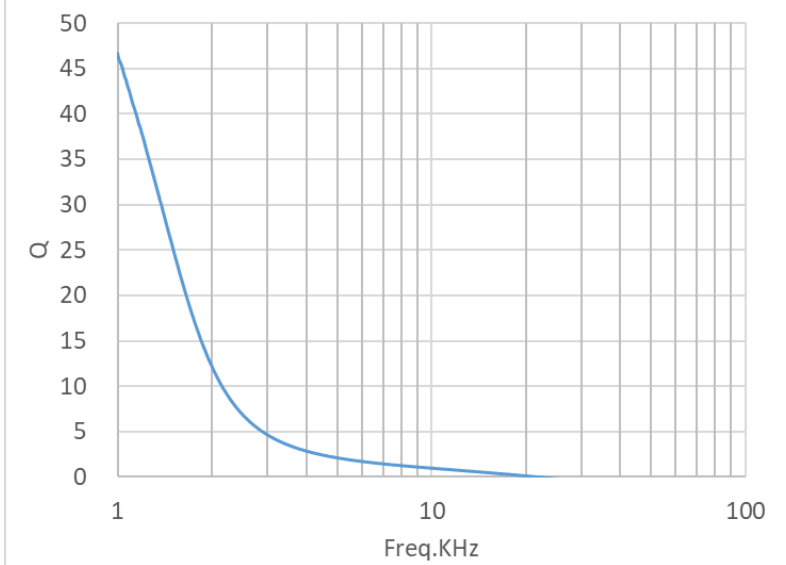
-ui temperature characteristics(Typ.)



-μi frequency characteristics(Typ.)

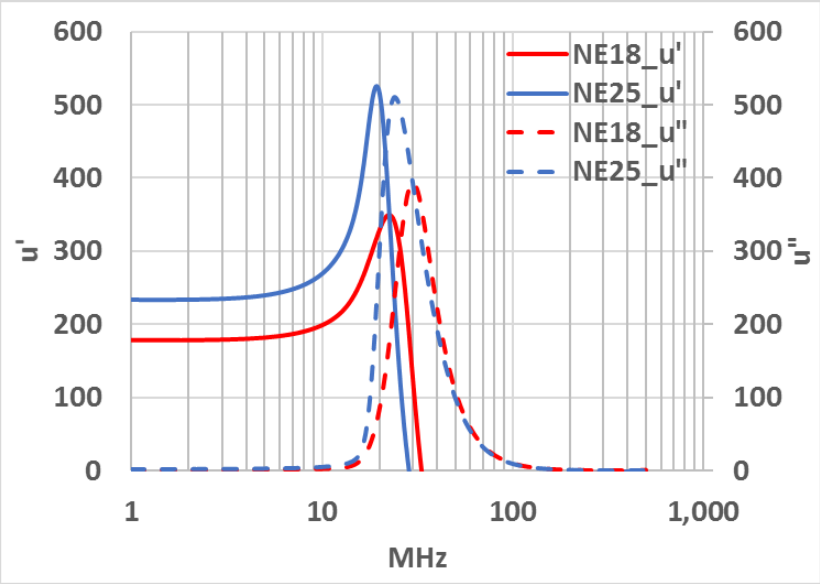


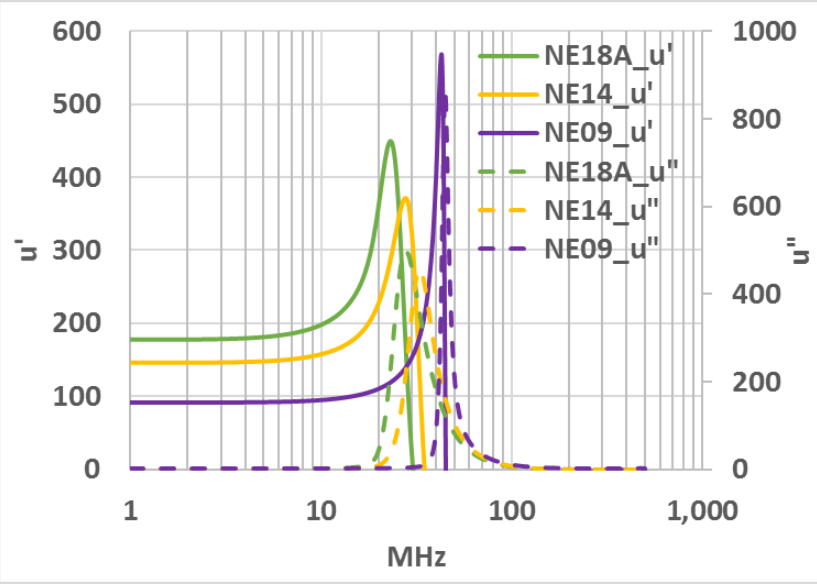
-Q factor

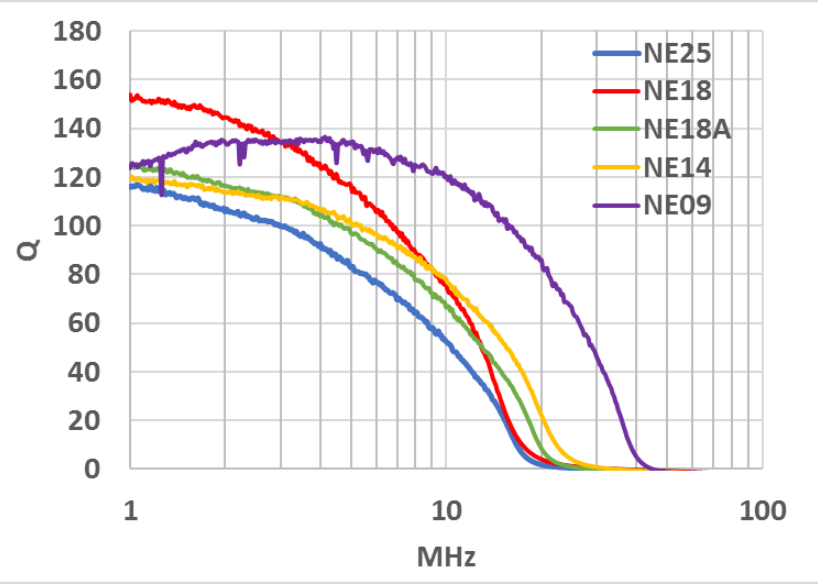


- Molding size: OD/ID=Φ16/ Φ10mm, Green density=3.1 g/cm3
- Sintering program setting: The maximum sintering temperature is 1070 ℃, the temperature is maintained for two hours, and the heating & cooling rate is 5 ℃/min

Recommended Material	Real permeability u' @6.78MHz	Imaginary permeability u" @6.78MHz	Initial permeability u' @13.56MHz	Imaginary permeability u" @13.56MHz	Saturation magnetic flux density Bs(mT)	Remanent Flux density Br (mT)	Coercive Force Hc (A/m)	resistivity (Ω-m)	Density (kg/m3)
NE25	250±25%	3.5 MAX	320±25%	10 MAX	390[4kA/m]	290	105	$>10^5$	$5.0x10^3$
NE18	180±25%	2 MAX	220±25%	5.5 MAX	380[4kA/m]	280	130	$>10^5$	$5.0x10^3$
NE18A	180±25%	2.5 MAX	220±25%	5 MAX	385[4kA/m]	265	130	$>10^5$	$5.0x10^3$
NE14	140±25%	2 MAX	170±25%	3 MAX	370[4kA/m]	280	165	$>10^5$	$5.0x10^3$
NE09	90±25%	1 MAX	100±25%	1 MAX	380[4kA/m]	280	235	$>10^5$	$5.0x10^3$







- Molding size: OD/ID=Φ16/ Φ10mm, Green density=3.1 g/cm3
- Sintering program setting: The maximum sintering temperature is 950 ℃, the temperature is maintained for two hours, and the heating & cooling rate is 5 ℃/min