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August 2014

RoHs+Halogen Compliant
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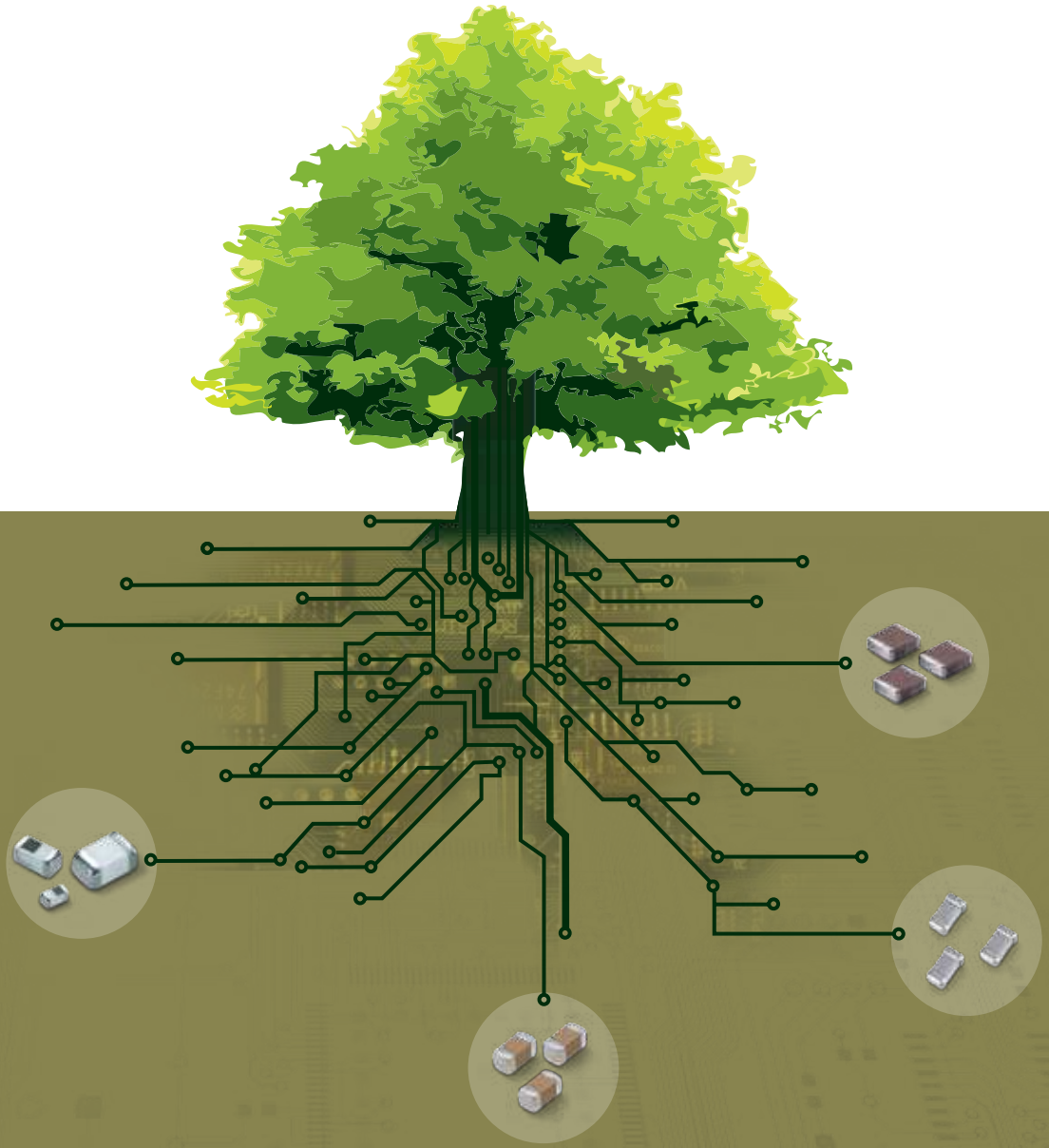
MULTILAYER CHIP COMPONENTS



SAMSUNG ELECTRO-MECHANICS

SAMSUNG

We, Samsung, declare that our component EMC is produced in accordance with EU RoHS directive.

1.RoHS Compliance and restriction of Br

The following restricted materials are not used in packaging materials as well as products in compliance with the law and restriction.
- Cd, Pb, Hg, Cr6+, As, Br and the compounds, PCB, asbestos

2.No use of materials breaking Ozone layer

The following ODS materials are not used in our fabrication process.
- ODS material : Freon, Haron, 1-1-1 TCE, CCl4, HCFC

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Please, see the last page of this catalog for our environmental certification list.

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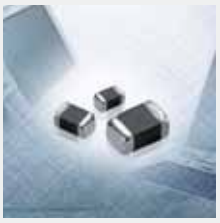

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Bead

Type	Series	Size Code mm (inch)	Impedance Range (Ω) at 100MHz	Effective Frequency Range (1MHz 10MHz 100MHz 1GHz 10GHz)
General Signal CIB:monolayer CIM:multilayer	CIB10P	1608(0603)	10~33	
	CIB21P	2012(0805)	11~47	
	CIB31P	3216(1206)	26~70	
	CIB32P	3225(1210)	31~60	
	CIB41P	4516(1806)	80~150	
	CIM03U	0603(0201)	80~600	
	CIM05U	1005(0402)	10~1000	
	CIM10U	1608(0603)	80~2000	
	CIM21U	2012(0805)	80~2000	
	CIM31U	3216(1206)	10~600	
High speed signal	CIB05J	1005(0402)	10	
	CIM03J	0603(0201)	120~240	
	CIM05J	1005(0402)	30~1800	
	CIM10J	1608(0603)	30~2500	
	CIM21J	2012(0805)	26~2500	
	CIM31J	3216(1206)	150~1500	
	CIM03N	0603(0201)	30~80	
	CIM05N	1005(0402)	75~220	
	CIM10N	1608(0603)	70~240	
	CIM21N	2012(0805)	70~240	
	CIM10K	1608(0603)	1500~2500	
	CIM21K	2012(0805)	1500~2500	
	CIM05F	1005(0402)	5~220	
	CIM10F	1608(0603)	47~470	
	CIM05H	1005(0402)	80~160	
High Current	CIC02W	0402(01005)	30~120	
	CIC03P	0603(0201)	30~120	
	CIC05P	1005(0402)	30~120	
	CIC10P	1608(0603)	8~600	
	CIC21P	2012(0805)	11~600	
	CIC31P	3216(1206)	30~600	
	CIC41P	4516(1806)	26~600	
	CIC05J	1005(0402)	60	
	CIC10J	1608(0603)	8~600	
	CIC21J	2012(0805)	60~600	
	CIC31J	3216(1206)	30~600	
	CIC41J	4516(1806)	26~600	
	CIC05Y	1005(0402)	30~120	
Ultra high current	CIS10P	1608(0603)	26~600	
	CIS10J~CIS41J	1608(0603)~4516(1806)	30~120	
	CIS21P~CIS41P	2012(0805)~4516(1806)	30~240	
GHz Band Noise Suppression	CIV05U	1005(0402)	600~1000	
	CIV05J	1005(0402)	1000~1800	

Metal Composite Power Inductor

Type	Series	Size Code mm (inch)	Inductance(H) Range
Metal Composite Thin Film Power Inductor DC-DC Converter	CIGT201210UM	2012(0805)	0.16~1.5μH
	CIGT201608UM	2016(0806)	0.24~2.2μH
	CIGT201610UM	2016(0806)	0.24~2.2μH
	CIGT201610LM	2016(0806)	0.24~1.0μH
	CIGT252010LM	2016(0806)	0.47~1.0μH
	CIGT252012LM	2520(1008)	0.47~1.0μH

Ferrite Multilayer Power Inductor

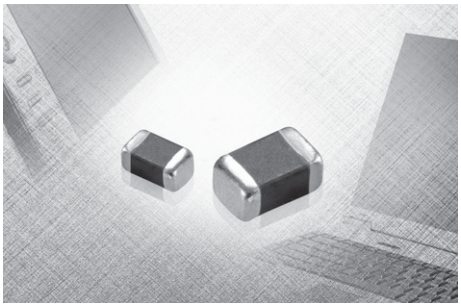
Type	Series	Size Code mm (inch)	Inductance(H) Range
Ferrite Multilayer Power Inductor DC-DC Converter	CIG10F(Low Profile)	1608(0603)	0.47~2.2μH
	CIG10W(Normal)	1608(0603)	0.27~4.7μH
	CIG10L(Low Rdc)	1680(0603)	2.5μH
	CIG21F(Low Profile)	2012(0805)	0.47~2.2μH
	CIG21L(Low Rdc)	2012(0805)	0.47~4.7μH
	CIG2MW	2012(0805)	0.47~4.7μH
	CIG22L(Low Rdc)	2520(1008)	0.47~10 μH
	CIG22H(High Current)	2520(1008)	0.33~4.7μH
	CIG22E(High Efficiency Type)	2520(1008)	0.47~4.7μH
	CIG21E(High Current Type)	2012(0805)	0.47~2.2μH
	CIG22B	2520(1008)	0.27~4.7μH

Inductor

Type	Series	Size Code mm (inch)	Inductance(H) Range
General Frequency range	CIL05	1005(0402)	2.2μH
	CIL10	1608(0603)	0.047~33μH
	CIL21	2012(0805)	0.047~33μH
	CIL31	3216(1206)	0.047~33μH
High Frequency range	CIH02T	0402(01005)	0.4~47nH
	CIH03T	0603(0201)	0.6~100nH
	CIH03Q	0603(0201)	0.6~100nH
	CIH03U	0603(0201)	0.6~100nH
	CIH03W	0603(0201)	0.6~22nH
	CIH05T	1005(0402)	1~100nH
	CIH05Q	1005(0402)	1~270nH
	CIH10T	1608(0603)	1~270nH

Filters

Type	Series	Size Code mm (inch)
Common Mode Filter	CMFT080604GN	0806(0302)
	CMFT060503GN	0605(0202)
	CMFT080604HN	0806(0302)
	CMFT060503HN	0806(0302)
	CMFT040302HN	0403(0101)
	CMFT080604GE	0806(0302)
	CMFT060503GE	0605(0202)
3-Terminal capacitor	EMIC10B	1608(0603)
	EMIC21B	2012(0805)
	EMIC21F	2012(0805)
	EMIC31B	3216(1206)
Diplexer	DX21	2012(0805)
LC Filter	LCB10	1608(0603)
	LCB21	2012(0805)
	LCB22	2520(1008)



High Current Type

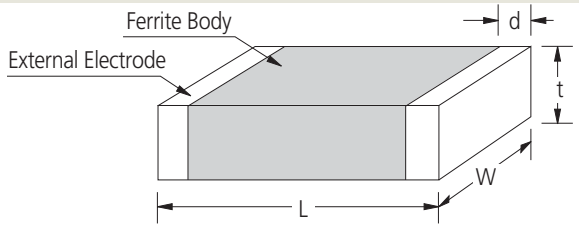
- Low DC resistance
- Magnetically shielded structure
- Free of all RoHS-regulated substances
- Monolithic structure for high reliability

Application

- Mobile phones, DSC, DVC, PDA etc. for DC- DC Converter

Operating Temp	-40~+125℃(Including self - temperature rise)
Storage Temp (After mounting)	-40~+125℃

Dimensions



SIZE CODE	Dimension (mm)			
	L	W	t	d
CIGT201210UM	2.0±0.20	1.25±0.20	1.0 max	0.5±0.2
CIGT201608UM	2.0±0.20	1.6±0.20	0.8 max	0.5±0.2
CIGT201610UM	2.0±0.20	1.6±0.20	1.0 max	0.5±0.2
CIGT201610LM	2.0±0.20	1.6±0.20	1.0 max	0.5±0.2
CIGT252010LM	2.5±0.20	2.0±0.20	1.0 max	0.55±0.25
CIGT252012LM	2.5±0.20	2.0±0.20	1.2 max	0.55±0.25

Part Numbering

CIG	T(W)	2016	10	U	M	R47	M	N	E
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

(1) SEMCO Power inductor

(2) Type - T : Thin film, W:Wire wound

(3) Dimensions (2016: 2.0mm x 1.6mm, 2520: 2.5mm x 2.0mm)

(4) Thickness (08: 0.8mm / 10: 1.0mm / 12: 1.2mm)

(5) Product Series (L, U, E)

(6) Characteristic (M: General, L: Low DCR, H: High current)

(7) Inductance (R47: 0.47uH, 1R0: 1.0uH, 2R2: 2.2uH)

(8) Inductance Tolerance (M: ±20%, N: ±30%)

(9) Internal Code

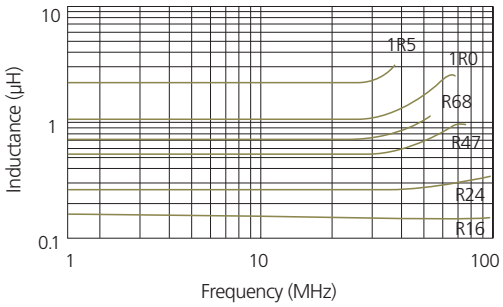
(10) Packaging Code (E: Embossed tape, C: Paper tape)

CIGT 201210 UM Series

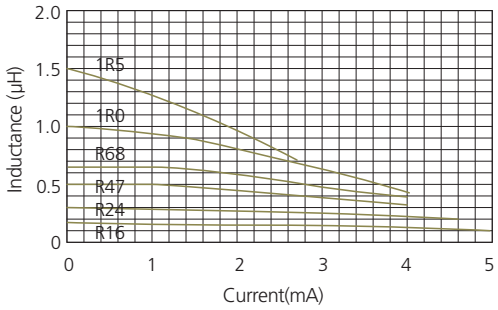
Part No.	Size (Inch/mm)	Thickness (mm)Max	Inductance (μH) @1MHz	DC Resistance (mΩ)		Rated Current Idc1(A) ΔL=30%		Rated Current Idc2(A) ΔL=40℃	
				Max	Typ.	Max	Typ.	Max	Typ.
CIG201210UMR16MNE	0805/2012	1.0	0.16±20%	16	13	5.0	5.5	5.0	5.5
CIG201210UMR24MNE	0805/2012	1.0	0.24±20%	26	21	4.0	4.5	3.3	3.7
CIG201210UMR47MNE	0805/2012	1.0	0.47±20%	41	34	3.0	3.4	3.0	3.3
CIG201210UMR68MNE	0805/2012	1.0	0.68±20%	58	48	2.8	3.0	2.7	2.9
CIG201210UM1R0MNE	0805/2012	1.0	1.00±20%	81	67	2.0	2.4	2.0	2.3
CIG201210UM1R5MNE	0805/2012	1.0	1.50±20%	139	116	1.8	1.9	1.8	1.9

※ Rated Current Idc1 (A) : DC current value when inductance drops by 30% of initial inductance value.
※ Rated Current Idc2 (A) : DC current value when the temperature of inductor rises to 40℃ by self heating
(Reference ambient temperature: 25℃)
※ Operating temperature: -40~125℃ (Including self-temperature rise)
※ Measuring instrument
- Inductance, Idc1 : Agilent E4991A, DC Resistance : Agilent 4338A/B

INDUCTANCE



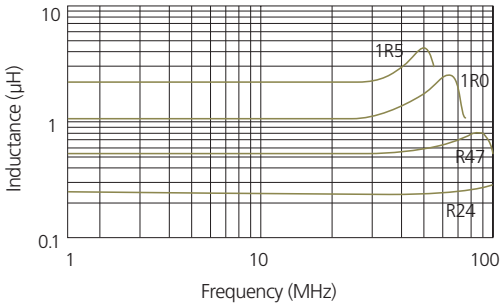
DC BIAS CHARACTERISTIC



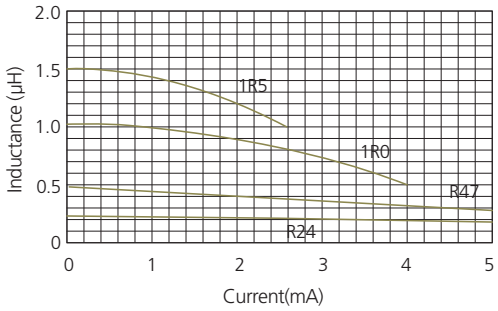
CIGT 201608 UM Series

Part No.	Size (Inch/mm)	Thickness (mm)Max	Inductance (μH) @1MHz	DC Resistance (mΩ)		Rated Current Idc1(A) ΔL=30%		Rated Current Idc2(A) ΔL=40℃	
				Max	Typ.	Max	Typ.	Max	Typ.
CIG201608UMR24MNE	0806/2016	0.8	0.24±20%	23	21	4.3	4.7	3.6	4.0
CIG201608UMR47MNE	0806/2016	0.8	0.47±20%	38	35	3.3	3.6	3.0	3.4
CIG201608UM1R0MNE	0806/2016	0.8	1.00±20%	57	53	3.0	3.3	2.7	3.0
CIG201608UM1R5MNE	0806/2016	0.8	1.50±20%	120	100	2.1	2.3	1.9	2.1

INDUCTANCE



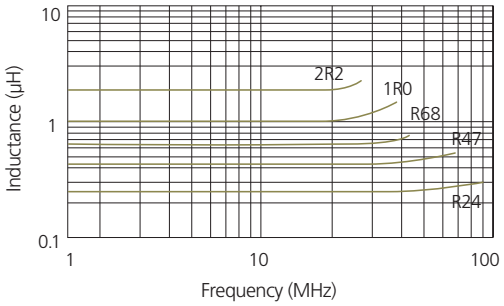
DC BIAS CHARACTERISTIC



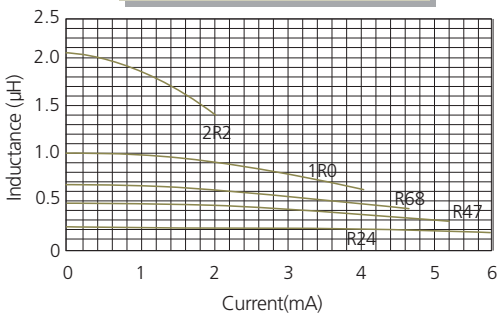
CIGT 201610 UM Series

Part No.	Size (Inch/mm)	Thickness (mm)Max	Inductance (μH) @1MHz	DC Resistance (mΩ)		Rated Current Idc1(A) ΔL=30%		Rated Current Idc2(A) ΔL=40℃	
				Max	Typ.	Max	Typ.	Max	Typ.
CIGT201610UMR24MNE	0806/2016	1.0	0.24±20%	21	17	5.1	6.0	4.1	4.7
CIGT201610UMR47MNE	0806/2016	1.0	0.47±20%	36	30	4.5	5.2	3.2	3.6
CIGT201610UMR68MNE	0806/2016	1.0	0.68±20%	48	40	3.7	4.1	3.1	3.4
CIGT201610UM1R0MNE	0806/2016	1.0	1.00±20%	57	48	3.1	3.5	2.8	3.1
CIGT201610UM2R2MNE	0806/2016	1.0	2.20±20%	154	128	1.3	1.7	1.6	1.7

INDUCTANCE



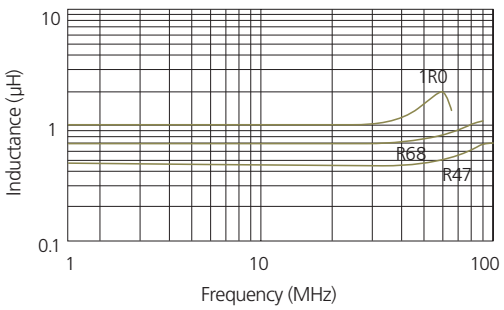
DC BIAS CHARACTERISTIC



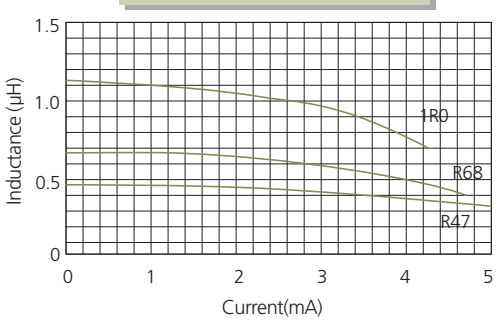
CIGT 252010 LM Series

Part No.	Size (Inch/mm)	Thickness (mm)Max	Inductance (μH) @1MHz	DC Resistance (mΩ)		Rated Current Idc1(A) ΔL=30%		Rated Current Idc2(A) ΔL=40℃	
				Max	Typ.	Max	Typ.	Max	Typ.
CIGT252010LMR47MN(U)E	1008/2520	1.0	0.47±20%	29	24	5.0	6.0	3.7	4.1
CIGT252010LMR68MN(U)E	1008/2520	1.0	0.68±20%	45	35	4.0	4.5	3.3	3.7
CIGT252010LM1R0MN(U)E	1008/2520	1.0	1.00±20%	50	43	3.8	4.2	3.1	3.5

INDUCTANCE



DC BIAS CHARACTERISTIC

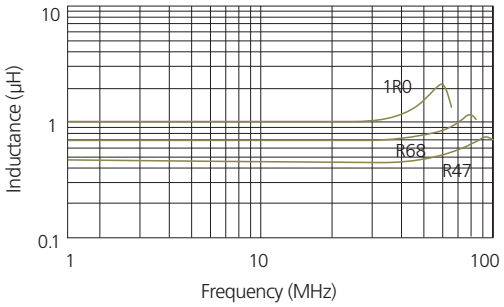


※ Rated Current Idc1 (A) : DC current value when inductance drops by 30% of initial inductance value.
※ Rated Current Idc2 (A) : DC current value when the temperature of inductor rises to 40℃ by self heating
(Reference ambient temperature: 25℃)
※ Operating temperature: -40~125℃ (Including self-temperature rise)
※ Measuring instrument
- Inductance, Idc1 : Agilent E4991A, DC Resistance : Agilent 4338A/B

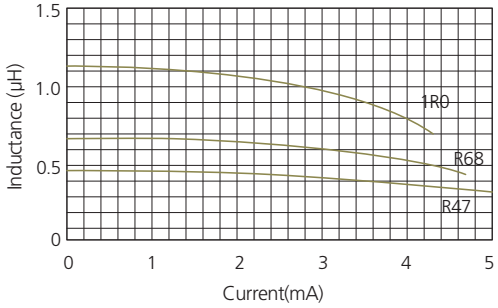
CIGT 252012 LM Series

Part No.	Size (Inch/mm)	Thickness (mm)Max	Inductance (μH) @1MHz	DC Resistance (mΩ)		Rated Current Idc1(A) ΔL=30%		Rated Current Idc2(A) ΔL=40℃	
				Max	Typ.	Max	Typ.	Max	Typ.
CIGT252012LMR47MN(U)E	1008/2520	1.2	0.47±20%	25	20	5.2	6.0	4.0	4.5
CIGT252012LMR68MN(U)E	1008/2520	1.2	0.68±20%	33	28	4.0	4.7	3.5	3.9
CIGT252012LM1R0MN(U)E	1008/2520	1.2	1.00±20%	40	34	3.8	4.5	3.4	3.8

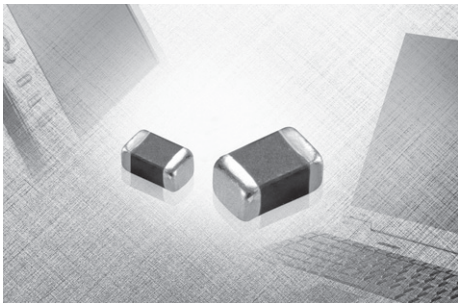
INDUCTANCE



DC BIAS CHARACTERISTIC



※ Rated Current Idc1 (A) : DC current value when inductance drops by 30% of initial inductance value.
※ Rated Current Idc2 (A) : DC current value when the temperature of inductor rises to 40℃ by self heating
(Reference ambient temperature: 25℃)
※ Operating temperature: -40~125℃ (Including self-temperature rise)
※ Measuring instrument
- Inductance, Idc1 : Agilent E4991A, DC Resistance : Agilent 4338A/B



General Features

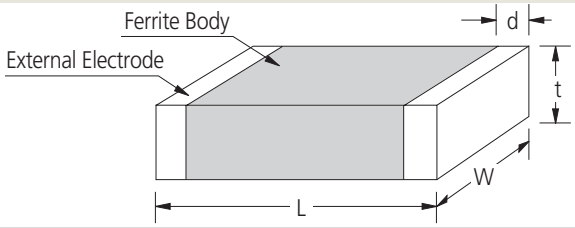
- Low profile (1.0mm max height)
- Magnetically shielded and Low DC resistance
- Lead free termination and internal electrode
- Monolithic structure for high reliability

Application

- Mobile phones, DSC, DVC, PDA etc. for DC- DC Converter

Operating Temp	-40~+125℃(Including self - temperature rise)
Storage Temp (After mounting)	-40~+125℃

Dimensions



SIZE CODE	Dimension (mm)			
	L	W	t	d
CIG10F Series	1.6±0.15	0.8±0.15	0.5 max	0.3±0.2
CIG10W Series	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
CIG10L Series	1.6±0.10	0.8±0.10	0.65±0.1	0.5+0.2/-0.3
CIG21F Series	2.0±0.10	1.25±0.10	0.5 max	0.5+0.2/-0.3
CIG21W Series	2.0±0.20	1.25±0.20	0.9±0.1	0.5+0.2/-0.3
CIG21L Series	2.0±0.10	1.25±0.10	0.9±0.1	0.5+0.2/-0.3
CIG21C Series	2.0±0.10	1.25±0.10	0.9±0.1	0.5+0.2/-0.3
CIG2MW Series	2.0±0.15	1.6±0.15	0.9±0.1	0.5±0.2
CIG22L Series	2.5±0.20	2.0±0.20	0.9±0.1	0.55±0.25
CIG22H Series(MAE)	2.5±0.20	2.0±0.20	0.9±0.1	0.55±0.25
CIG22H Series(MNE)	2.5±0.20	2.0±0.20	1.1±0.1	0.55±0.25
CIG22E Series(MNE)	2.5±0.20	2.0±0.20	0.9±0.1	0.55±0.25
CIG22B Series(MLE)	2.5±0.15	2.0±0.15	0.9±0.1	0.60±0.20
CIG22B Series(MAE)	2.5±0.20	2.0±0.20	0.7±0.1	0.55±0.25
CIG22B Series(MNE)	2.5±0.20	2.0±0.20	0.9±0.1	0.55±0.25
CIG21E Series	2.0±0.20	1.25±0.15	0.9±0.1	0.5+0.2/-0.3
CIG32W Series	3.2±0.20	2.5±0.20	0.9±0.1	0.50±0.30
CIG32H Serise	3.2±0.15	2.5±0.15	1.1±0.1	0.50±0.30

Part Numbering

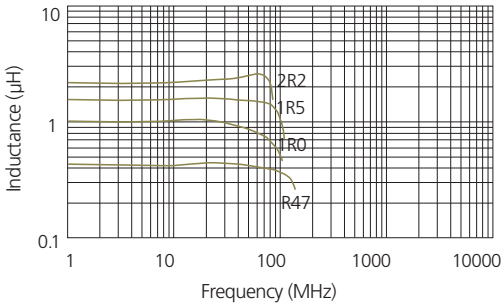
CI	G	22	L	4R7	M	N	E
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

(1) Chip inductor
(2) Power inductor
(3) Dimensions (10:1608, 21:2012, 2M:2016, 22:2520,32:3225)
(4) Product Series (W: Normal Type, L: Low Rdc Type, F: Low profile Type, C:Choke Type
H: High Current Type, B: High Current & Low Profile Type)
E : High Current Type (2012 size), High Efficiency Type (2520 size)
(5) Inductance (R47: 0.47uH, 2R2: 2.2uH, 4R7: 4.7uH)
(6) Tolerance (M: ±20%, N: ±30%)
(7) Thickness Option (N: Standard, A: Thinner than standard, B: Thicker than standard)
(8) Package Style (C: Paper tape / 7"reel, E: Embossed tape / 7"reel)

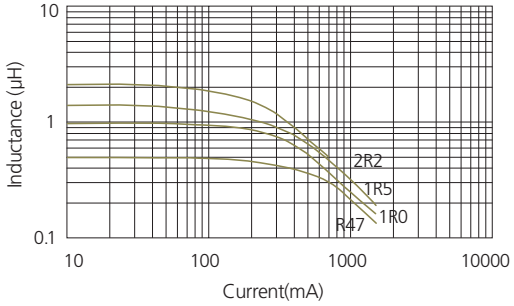
CIG 1608(0603) Type - Low Profile

Part No.	Thickness(mm)	Inductance (μH) @1MHz	DC Resistance (Ω)	Rated Current (A) Max.
CIG10FR47MNC	0.5max	0.47±20%	0.20±30%	0.80
CIG10F1R0MNC	0.5max	1.0±20%	0.30±30%	0.70
CIG10F1R5MNC	0.5max	1.5±20%	0.35±30%	0.60
CIG10F2R2MNC	0.5max	2.2±20%	0.45±30%	0.50

INDUCTANCE



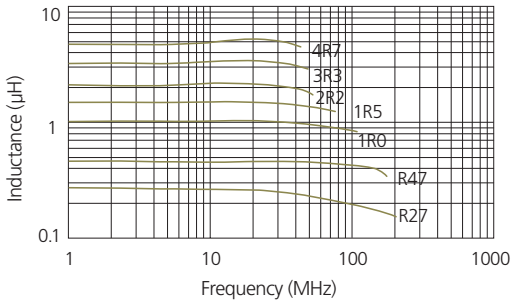
DC BIAS CHARACTERISTIC



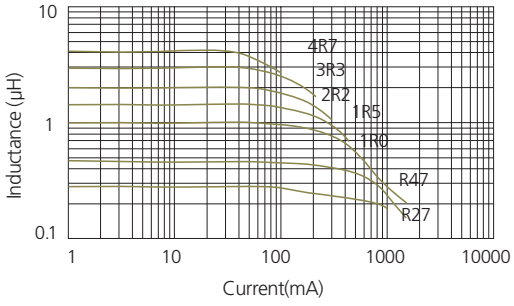
CIG 1608(0603) Type

Part No.	Thickness(mm)	Inductance (μH) @1MHz	DC Resistance (Ω)	Rated Current (A) Max.
CIG10WR27MNC	0.8±0.15	0.27±25%	0.12±25%	1.30
CIG10WR47MNC	0.8±0.15	0.47±20%	0.15±20%	1.10
CIG10W1R0MNC	0.8±0.15	1.0±20%	0.20±20%	0.95
CIG10W1R5MNC	0.8±0.15	1.5±20%	0.25±20%	0.80
CIG10W2R2MNC	0.8±0.15	2.2±20%	0.30±20%	0.75
CIG10W3R3MNC	0.8±0.15	3.3±20%	0.40±20%	0.70
CIG10W4R7MNC	0.8±0.15	4.7±20%	0.50±20%	0.62

INDUCTANCE



DC BIAS CHARACTERISTIC

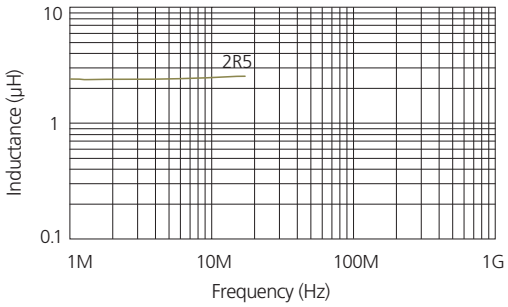


※ Rated Current: DC current value when the self-generation of heat rises to 40℃ (Reference ambient temperature: 25℃)
※ Test equipment: Agilent: E4991A+16092A or Equivalent

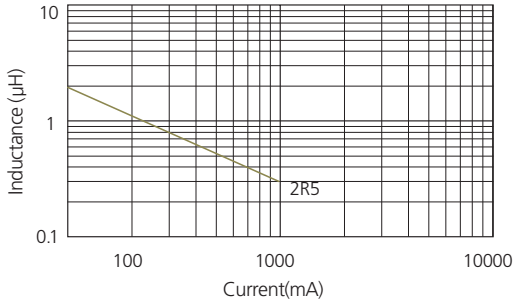
CIG 1608(0603) Type - RDC

Part No.	Thickness(mm)	Inductance (μH) @1MHz	DC Resistance (Ω)	Rated Current (A) Max.
CIG10L2R5NAC	0.65±0.1	2.50±30%	0.240±25%	0.70

INDUCTANCE(Typ.)



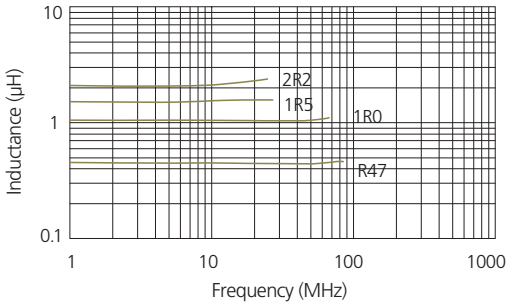
DC BIAS CHARACTERISTIC(Typ.)



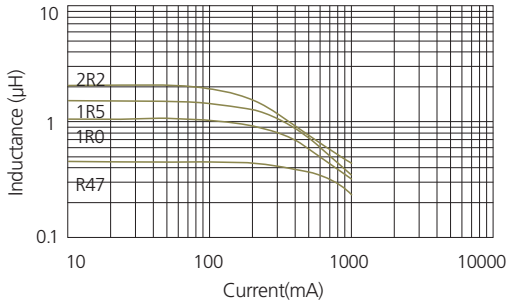
CIG 2012(0805) Type - Low Profile

Part No.	Thickness(mm)	Inductance (μH) @1MHz	DC Resistance (Ω)	Rated Current (A) Max.
CIG21FR47MNC	0.5max	0.47±20%	0.12±25%	1.10
CIG21F1R0MNC	0.5max	1.0±20%	0.19±25%	0.80
CIG21F1R5MNC	0.5max	1.5±20%	0.25±25%	0.70
CIG21F2R2MNC	0.5max	2.2±20%	0.34±25%	0.60

INDUCTANCE(Typ.)



DC BIAS CHARACTERISTIC(Typ.)

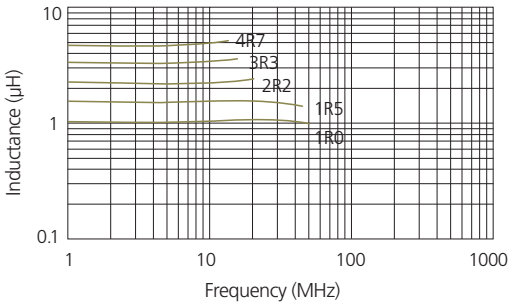


※ Rated Current: DC current value when the self-generation of heat rises to 40℃ (Reference ambient temperature: 25℃)
※ Test equipment: Agilent: E4991A+16092A or Equivalent

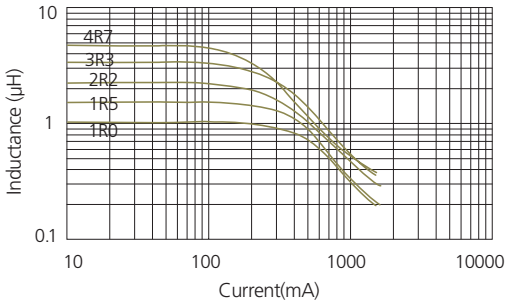
CIG 2012(0805) Type

Part No.	Thickness(mm)	Inductance (μH) @1MHz	DC Resistance (Ω)	Rated Current (A) Max.
CIG21W1R0MNE	0.9±0.1	1.0±25%	0.133±20%	1.05
CIG21W1R5MNE	0.9±0.1	1.5±25%	0.150±20%	0.96
CIG21W2R2MNE	0.9±0.1	2.2±20%	0.200±20%	0.81
CIG21W3R3MNE	0.9±0.1	3.3±20%	0.250±20%	0.73
CIG21W4R7MNE	0.9±0.1	4.7±20%	0.300±20%	0.65

INDUCTANCE(Typ.)



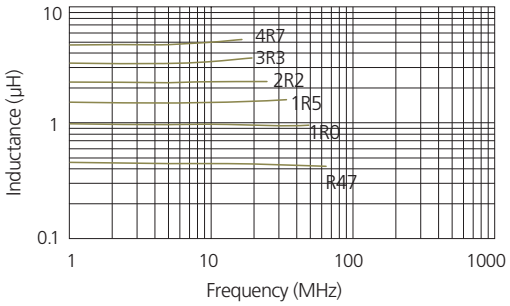
DC BIAS CHARACTERISTIC(Typ.)



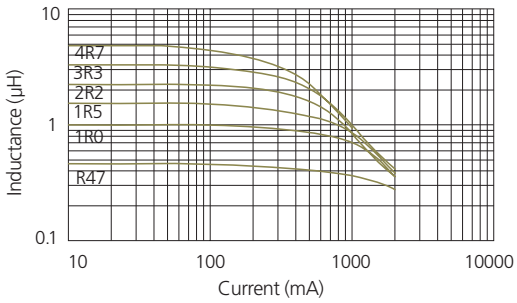
CIG 2012(0805) Type - Low RDC

Part No.	Thickness(mm)	Inductance (μH) @1MHz	DC Resistance (Ω)	Rated Current (A) Max.
CIG21LR47MNE	0.9±0.1	0.47±20%	0.080±20%	1.30
CIG21L1R0MNE	0.9±0.1	1.0±20%	0.110±20%	1.15
CIG21L1R2MNE	0.9±0.1	1.2±20%	0.125±20%	1.10
CIG21L1R5MNE	0.9±0.1	1.5±20%	0.140±20%	1.05
CIG21L2R2MNE	0.9±0.1	2.2±20%	0.160±20%	0.95
CIG21L3R3MNE	0.9±0.1	3.3±20%	0.220±20%	0.80
CIG21L4R7MNE	0.9±0.1	4.7±20%	0.260±20%	0.75

INDUCTANCE(Typ.)



DC BIAS CHARACTERISTIC(Typ.)

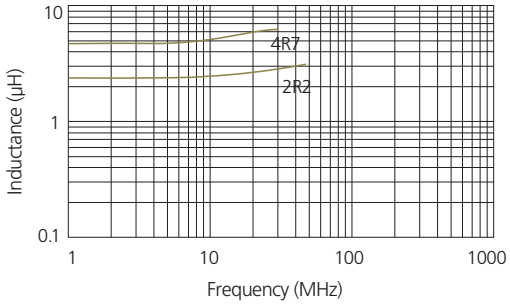


※ Rated Current: DC current value when the self-generation of heat rises to 40℃ (Reference ambient temperature: 25℃)
※ Test equipment: Agilent: E4991A+16092A or Equivalent

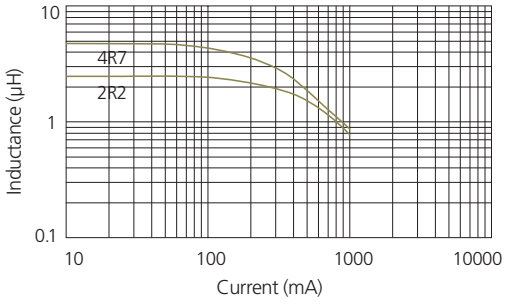
CIG 2012(0805) Type - Choke

Part No.	Thickness(mm)	Inductance (μH) @1MHz	DC Resistance (Ω)	Rated Current (A) Max.
CIG21C2R2MNE	0.9±0.1	2.2±20%	0.250±20%	0.80
CIG21C4R7MNE	0.9±0.1	4.7±20%	0.433±20%	0.58

INDUCTANCE(Typ.)



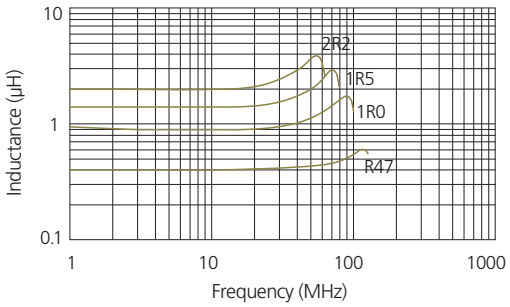
DC BIAS CHARACTERISTIC(Typ.)



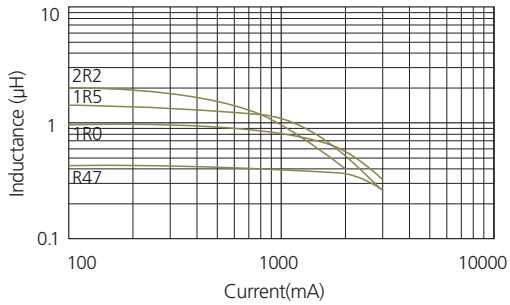
CIG 2012(0805) Type - High Current

Part No.	Thickness(mm)	Inductance (μH) @1MHz	DC Resistance (Ω)	Rated Current (A) Max.
CIG21ER47MNE	0.9±0.1	0.47±20%	0.04±30%	2.48
CIG21E1R0MNE	0.9±0.1	1.0±20%	0.08±25%	1.7
CIG21E1R5MNE	0.9±0.1	1.5±20%	0.125±25%	1.3
CIG21E2R2MNE	0.9±0.1	2.2±20%	0.125±25%	1.3

INDUCTANCE(Typ.)



DC BIAS CHARACTERISTIC(Typ.)

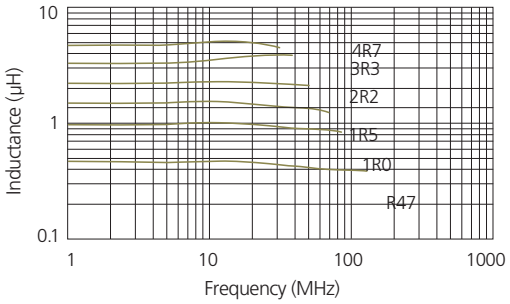


※ Rated Current: DC current value when the self-generation of heat rises to 40℃ (Reference ambient temperature: 25℃)
※ Test equipment: Agilent: E4991A+16092A or Equivalent

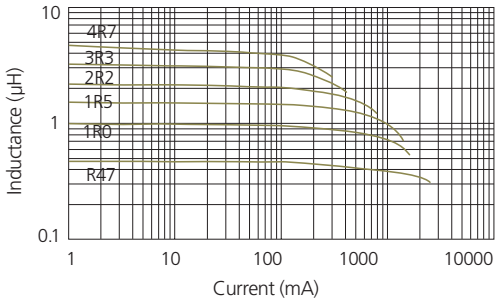
CIG 2016 Type

Part No.	Thickness(mm)	Inductance (μH) @1MHz	DC Resistance (Ω)	Rated Current (A) Max.
CIG2MWR47NNE	0.9±0.1	0.47±30%	0.060±25%	1.6
CIG2MW1R0NNE	0.9±0.1	1.0±30%	0.085±25%	1.4
CIG2MW1R5NNE	0.9±0.1	1.5±30%	0.11±25%	1.2
CIG2MW2R2NNE	0.9±0.1	2.2±30%	0.11±25%	1.2
CIG2MW3R3NNE	0.9±0.1	3.3±30%	0.12±25%	1.2
CIG2MW4R7NNE	0.9±0.1	4.7±30%	0.14±25%	1.1

INDUCTANCE(Typ.)



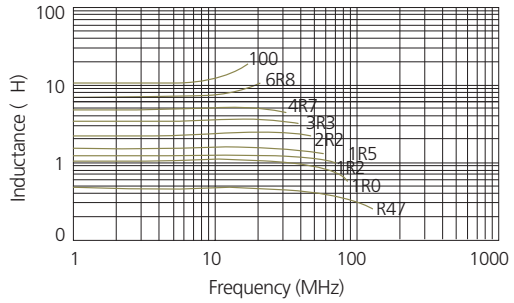
DC BIAS CHARACTERISTIC(Typ.)



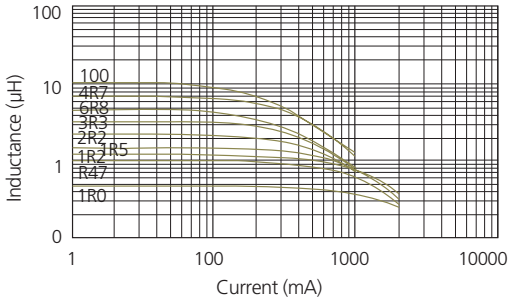
CIG 2520(1008) Type - Low RDC

Part No.	Thickness(mm)	Inductance (μH) @1MHz	DC Resistance (Ω)	Rated Current (A) Max.
CIG22LR47MNE	0.9±0.1	0.47±20%	0.040±25%	1.8
CIG22L1R0MNE	0.9±0.1	1.0±20%	0.060±25%	1.6
CIG22L1R2MNE	0.9±0.1	1.2±20%	0.065±25%	1.5
CIG22L1R5MNE	0.9±0.1	1.5±20%	0.070±25%	1.5
CIG22L2R2MNE	0.9±0.1	2.2±20%	0.080±25%	1.3
CIG22L3R3MNE	0.9±0.1	3.3±20%	0.100±25%	1.2
CIG22L4R7MNE	0.9±0.1	4.7±20%	0.110±25%	1.1
CIG22L6R8MNE	0.9±0.1	6.8±20%	0.203±30%	0.8
CIG22L100MNE	0.9±0.1	10.0±20%	0.323±30%	0.6

INDUCTANCE(Typ.)



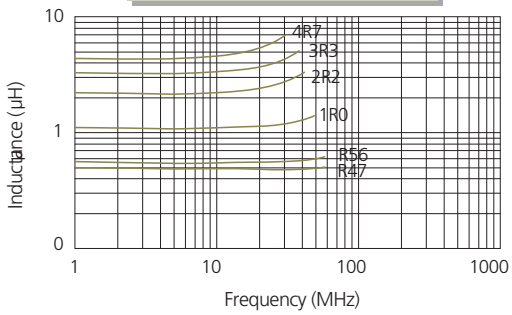
DC BIAS CHARACTERISTIC(Typ.)



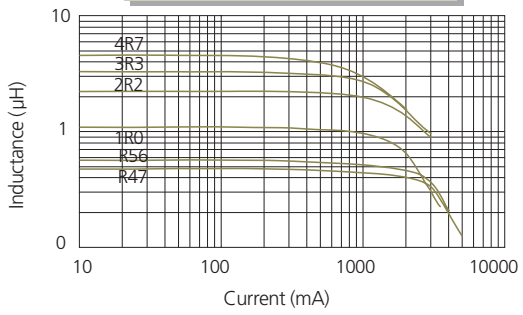
CIG 2520(1008) Type - High Current and Low Profile

Part No.	Thickness(mm)	Inductance (μH) @1MHz	DC Resistance (Ω)	Rated Current (A)*1 Typ.	Rated Current (A)*2	
					Typ.	Max.
CIG22BR47MAE	0.7±0.1	0.47±20%	0.08±25%	3.0	2.4	1.6
CIG22BR56MAE	0.7±0.1	0.56±20%	0.10±25%	2.8	2.05	1.4
CIG22B1R0MAE	0.7±0.1	1.0±20%	0.11±25%	1.7	1.9	1.3
CIG22B2R2MAE	0.7±0.1	2.2±20%	0.19±25%	0.85	1.65	1.1
CIG22B3R3MAE	0.7±0.1	3.3±20%	0.22±25%	0.65	1.5	1.0
CIG22B4R7MAE	0.7±0.1	4.7±20%	0.28±25%	0.45	1.3	0.8

INDUCTANCE(Typ.)



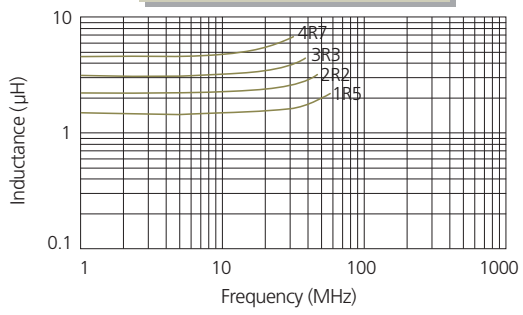
DC BIAS CHARACTERISTIC(Typ.)



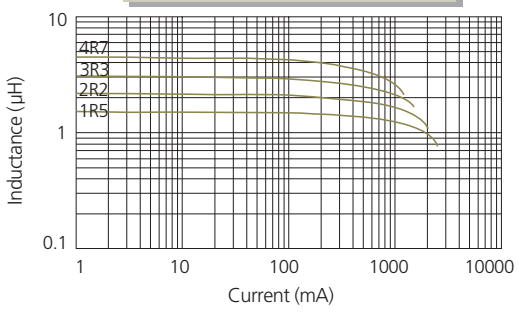
CIG 2520(1008) Type - High Current and Low Profile(1.0t/LGA Type)

Part No.	Thickness(mm)	Inductance (μH) @3MHz	DC Resistance (Ω)	Rated Current (A)*1 Typ.	Rated Current (A)*2 Max.
CIG22B1R5MLE	0.9±0.1	1.5±20%	0.15±25%	1.6	1.0
CIG22B2R2MLE	0.9±0.1	2.2±20%	0.17±25%	1.3	0.9
CIG22B3R3MLE	0.9±0.1	3.3±20%	0.22±25%	0.9	0.8
CIG22B4R7MLE	0.9±0.1	4.7±20%	0.26±25%	0.7	0.7

INDUCTANCE(Typ.)



DC BIAS CHARACTERISTIC(Typ.)

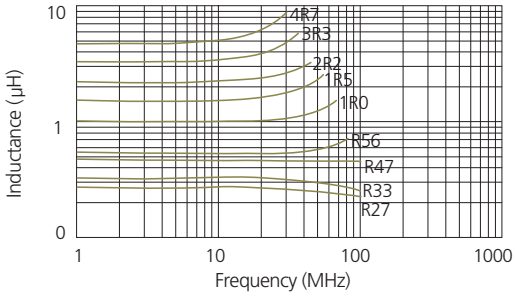


※ Rated Current (A)*1: DC current value when Inductance drops to 30% of nominal Inductance value.
※ Rated Current (A)*2: DC current value when the self-generation of heat rises to 40℃ (Reference ambient temperature: 25℃)
※ Test equipment: Agilent: E4991A+16092A or Equivalent

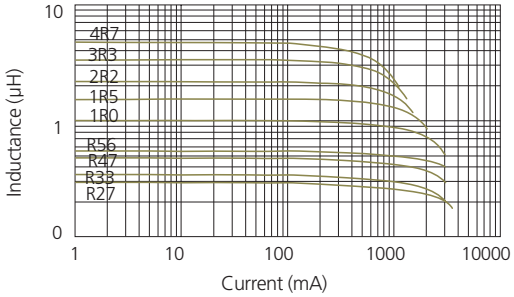
CIG 2520(1008) Type - High Current(1.0t)

Part No.	Thickness(mm)	Inductance (μH) @1MHz	DC Resistance (Ω)	Rated Current (A)*1 Typ.	Rated Current (A)*2 Max.
CIG22BR27MNE	0.9±0.1	0.27±20%	0.047±30%	2.80	1.80
CIG22BR33MNE	0.9±0.1	0.33±20%	0.047±30%	2.40	1.70
CIG22BR47MNE	0.9±0.1	0.47±20%	0.0655±30%	2.40	1.60
CIG22BR56MNE	0.9±0.1	0.56±20%	0.090±30%	2.70	1.30
CIG22B1R0MNE	0.9±0.1	1.0±20%	0.125±20%	2.00	1.20
CIG22B1R5MNE	0.9±0.1	1.5±20%	0.148±20%	1.70	1.15
CIG22B2R2MNE	0.9±0.1	2.2±20%	0.183±20%	1.20	1.10
CIG22B3R3MNE	0.9±0.1	3.3±20%	0.216±20%	0.96	1.05
CIG22B4R7MNE	0.9±0.1	4.7±20%	0.250±20%	0.65	1.0

INDUCTANCE(Typ.)



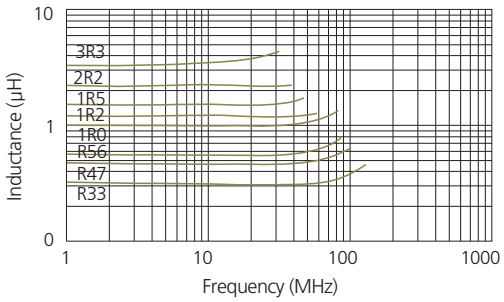
DC BIAS CHARACTERISTIC(Typ.)



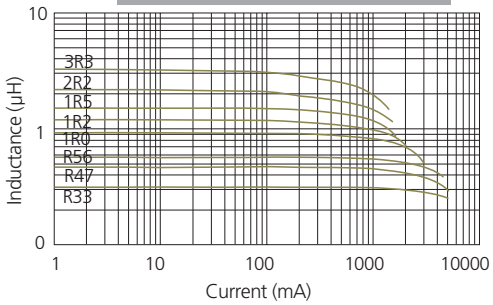
CIG 2520(1008) Type - High Current(1.0t)

Part No.	Thickness(mm)	Inductance (μH) @1MHz	DC Resistance (Ω)	Rated Current (A)*1 Typ.	Rated Current (A)*2 Max.
CIG22HR33MAE	0.9±0.1	0.33±20%	0.044±30%	4.80	2.2
CIG22HR47MAE	0.9±0.1	0.47±20%	0.044±30%	3.80	2.1
CIG22HR56MAE	0.9±0.1	0.56±20%	0.055±30%	3.50	2.0
CIG22H1R0MAE	0.9±0.1	1.0±20%	0.065±20%	2.00	1.8
CIG22H1R2MAE	0.9±0.1	1.2±20%	0.065±20%	1.60	1.7
CIG22H1R5MAE	0.9±0.1	1.5±20%	0.074±20%	1.30	1.5
CIG22H2R2MAE	0.9±0.1	2.2±20%	0.138±20%	1.10	1.2
CIG22H3R3MAE	0.9±0.1	3.3±20%	0.138±20%	0.85	1.1

INDUCTANCE(Typ.)



DC BIAS CHARACTERISTIC(Typ.)

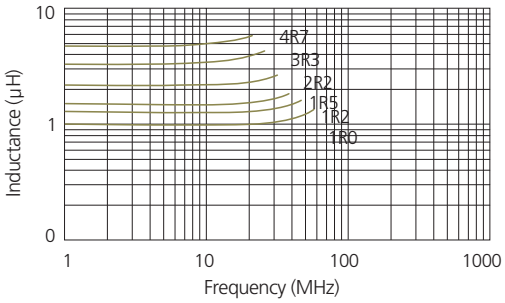


※ Rated Current (A)*1: DC current value when Inductance drops to 30% of nominal Inductance value.
※ Rated Current (A)*2: DC current value when the self-generation of heat rises to 40℃ (Reference ambient temperature: 25℃)
※ Test equipment: Agilent: E4991A+16092A or Equivalent

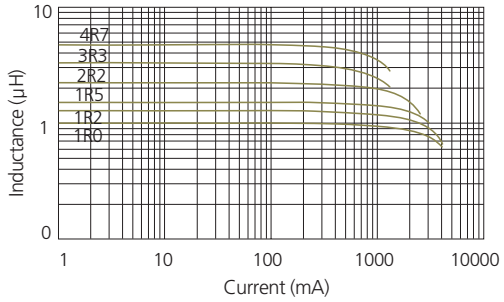
CIG 2520(1008) Type - High Current(1.2t)

Part No.	Thickness(mm)	Inductance (μH) @1MHz	DC Resistance (Ω)	Rated Current (A)*1 Typ.	Rated Current (A)*2	
					Typ.	Max.
CIG22H1R0MNE	1.1±0.1	1.0±20%	0.080±25%	3.3	2.0	1.5
CIG22H1R2MNE	1.1±0.1	1.2±20%	0.094±20%	2.8	1.9	1.5
CIG22H1R5MNE	1.1±0.1	1.5±20%	0.104±20%	2.4	1.6	1.5
CIG22H2R2MNE	1.1±0.1	2.2±20%	0.116±20%	1.8	1.6	1.2
CIG22H3R3MNE	1.1±0.1	3.3±20%	0.133±20%	1.0	1.5	1.0
CIG22H4R7MNE	1.1±0.1	4.7±20%	0.233±20%	0.95	1.0	0.8

INDUCTANCE(Typ.)



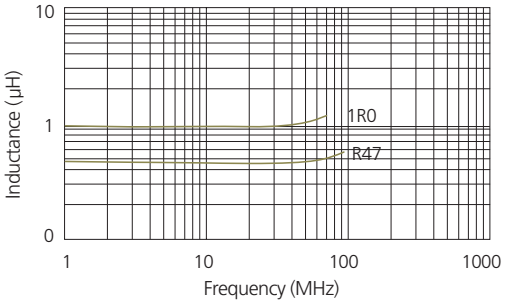
DC BIAS CHARACTERISTIC(Typ.)



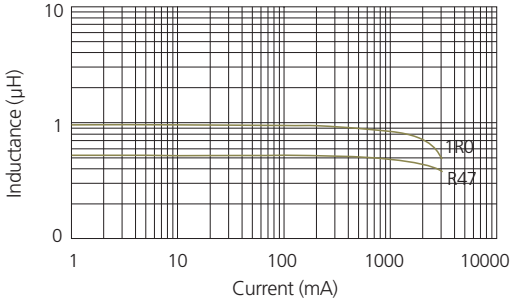
CIG 2520(1008) Type - High Efficiency

Part No.	Thickness(mm)	Inductance (μH) @1MHz	DC Resistance (Ω)	Rated Current (A)*1 Typ.	Rated Current (A)*2 Max.
CIG22ER47MNE	0.9±0.1	0.47±20%	0.036±30%	3.20	3.20
CIG22E1R0MNE	0.9±0.1	1.0±20%	0.048±30%	2.20	2.30
CIG22E1R0SNE	0.9±0.1	1.0±20%	0.040±20%	2.50	2.30
CIG22E1R5MNE	0.9±0.1	1.5±20%	0.130±20%	2.40	1.50
CIG22E2R2MNE	0.9±0.1	2.2±20%	0.150±20%	1.70	1.30
CIG22E3R3MNE	0.9±0.1	3.3±20%	0.200±20%	1.10	1.10
CIG22E4R7MNE	0.9±0.1	4.7±20%	0.265±20%	0.90	1.00

INDUCTANCE(Typ.)



DC BIAS CHARACTERISTIC(Typ.)

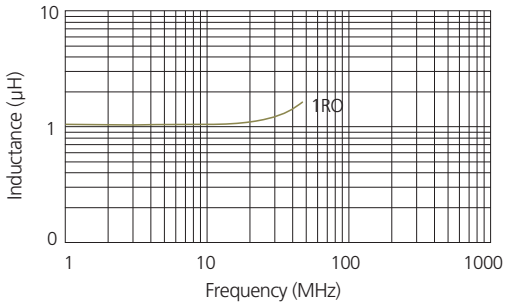


※ Rated Current (A)*1: DC current value when Inductance drops to 30% of nominal Inductance value.
※ Rated Current (A)*2: DC current value when the self-generation of heat rises to 40℃ (Reference ambient temperature: 25℃)
※ Test equipment: Agilent: E4991A+16092A or Equivalent

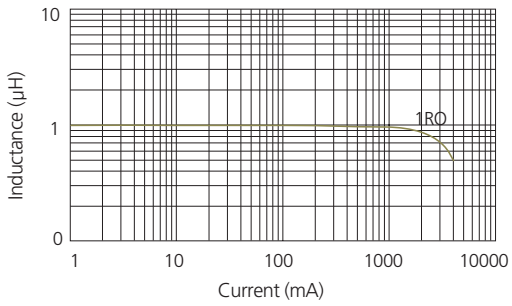
CIG 3225(1210) Type

Part No.	Thickness(mm)	Inductance (μH) @1MHz	DC Resistance (Ω)	Rated Current (A)*1 Typ.	Rated Current (A)*2	
					Typ.	Max.
CIG32W1R0MNE	0.9±0.1	1.0±20%	0.06±25%	2.7	2.0	1.5

INDUCTANCE(Typ.)



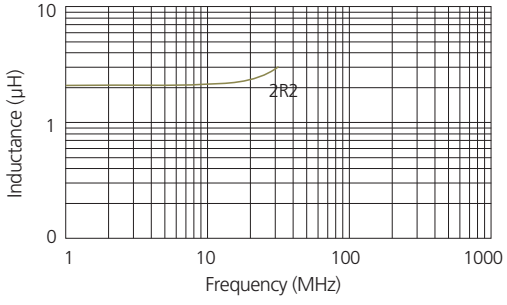
DC BIAS CHARACTERISTIC(Typ.)



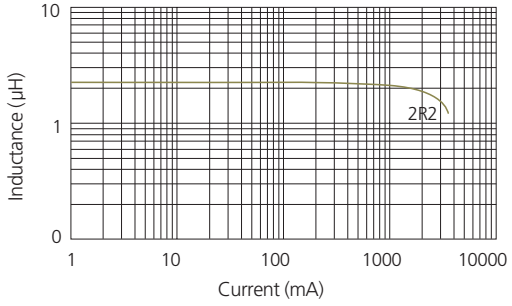
CIG 3225(1210) Type - High Current

Part No.	Thickness(mm)	Inductance (μH) @1MHz	DC Resistance (Ω)	Rated Current (A)*1 Typ.	Rated Current (A)*2 Max.
CIG32H2R2MNE	1.1±0.1	2.2±20%	0.125±25%	2.9	1.6

INDUCTANCE(Typ.)



DC BIAS CHARACTERISTIC(Typ.)



※ Rated Current (A)*1: DC current value when Inductance drops to 30% of nominal Inductance value.
※ Rated Current (A)*2: DC current value when the self-generation of heat rises to 40℃ (Reference ambient temperature: 25℃)
※ Test equipment: Agilent: E4991A+16092A or Equivalent

Feature

- Lowest value of specific resistance, good property of Q and high SRF.
- Possible to use at range above 100MHz
- Monolithic structure for high reliability.

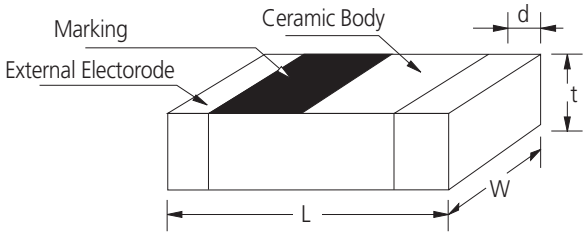
Application

- Mobile communication systems, noise suppression at high frequency and Impedance matching.

CIH Series has dielectric material and 100% Ag as an internal conductor. Therefore, it has high Q and IZI at high frequency. It is possible to use for high frequency over 100MHz.

Operating Temp	-55~+125℃
Storage Temp (After mounting)	-55~+125℃

Dimensions



Unit : mm

SIZE CODE	L	W	t	d
02	0.4±0.02	0.2±0.02	0.2±0.02	0.1±0.04
03	0.6±0.03	0.3±0.03	0.3±0.03	0.15±0.05
03*	0.6±0.03	0.3±0.03	0.3±0.03	0.10±0.05
03**	0.6±0.03	0.3±0.03	0.3±0.03	0.07±0.04
05	1.0±0.05	0.5±0.05	0.5±0.05	0.25±0.1
10	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2

※ * Mark is "High-Q"
※ ** Mark is " Super High Q"

Part Numbering

CI	H	03	T	12N	J	N	C
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

(1) Chip Inductor
(2) H : High frequency type
(3) Dimension
(4) Material code(T : Normal, Q : High Q, U : High Q and Low Rdc, W : Super High Q, M : Mega Q)
(5) Inductance(4N7 : 4.7nH, 10N : 10nH, R10 : 100nH)
(6) Tolerance(B: ±0.1nH, C: ±0.2nH, S: ±0.3nH, H: ±3%, J: ±5%,)
(7) Thickness option(N : Standard, A : Thinner than standard, B : Thicker than standard)
(8) Packaging(C : paper tape, E : embossed tape)

CIH 0402(01005) Type - Normal

Part No.	Inductance (nH)@100MHz	Q (Min.) @100 MHz	Q (typical) Frequency					SRF [MHz] min.	DC resistance (Ω)Max.	Rated current (mA) Max.
			500MHz	800MHz	1.8GHz	2.0GHz	2.4GHz			
CIH 02T 0N2 □	0.2nH±0.1nH, 0.2nH, 0.3nH	-	11	13	23	24	27	10	0.1	350
CIH 02T 0N3 □	0.3nH±0.1nH, 0.2nH, 0.3nH	-	11	13	23	24	27	10	0.2	350
CIH 02T 0N4 □	0.4nH±0.1nH, 0.2nH, 0.3nH	-	12	14	24	25	29	10	0.2	350
CIH 02T 0N5 □	0.5nH±0.1nH, 0.2nH, 0.3nH	-	12	14	24	25	29	10	0.2	350
CIH 02T 0N6 □	0.6nH±0.1nH, 0.2nH, 0.3nH	-	12	15	26	27	31	10	0.3	320
CIH 02T 0N7 □	0.7nH±0.1nH, 0.2nH, 0.3nH	-	12	15	26	27	31	10	0.4	320
CIH 02T 0N8 □	0.8nH±0.1nH, 0.2nH, 0.3nH	-	12	14	27	27	31	10	0.4	320
CIH 02T 0N9 □	0.9nH±0.1nH, 0.2nH, 0.3nH	2	11	13	22	28	32	10	0.4	320
CIH 02T 1N0 □	1.0nH±0.1nH, 0.2nH, 0.3nH	2	11	13	22	23	27	10	0.4	250
CIH 02T 1N1 □	1.1nH±0.1nH, 0.2nH, 0.3nH	2	11	14	23	23	27	10	0.5	250
CIH 02T 1N2 □	1.2nH±0.1nH, 0.2nH, 0.3nH	2	11	14	24	24	28	10	0.5	250
CIH 02T 1N3 □	1.3nH±0.1nH, 0.2nH, 0.3nH	2	11	14	24	25	29	10	0.6	250
CIH 02T 1N4 □	1.4nH±0.1nH, 0.2nH, 0.3nH	2	10	13	22	25	29	10	0.6	250
CIH 02T 1N5 □	1.5nH±0.1nH, 0.2nH, 0.3nH	2	10	13	22	23	26	10	0.6	220
CIH 02T 1N6 □	1.6nH±0.1nH, 0.2nH, 0.3nH	2	10	13	22	23	26	10	0.6	220
CIH 02T 1N7 □	1.7nH±0.1nH, 0.2nH, 0.3nH	2	10	13	23	23	26	10	0.6	200
CIH 02T 1N8 □	1.8nH±0.1nH, 0.2nH, 0.3nH	2	11	14	23	24	27	10	0.6	200
CIH 02T 1N9 □	1.9nH±0.1nH, 0.2nH, 0.3nH	2	10	14	22	25	28	9.0	0.6	200
CIH 02T 2N0 □	2.0nH±0.1nH, 0.2nH, 0.3nH	2	10	13	21	24	26	9.0	0.6	200
CIH 02T 2N1 □	2.1nH±0.1nH, 0.2nH, 0.3nH	2	10	13	21	23	25	8.0	0.7	200
CIH 02T 2N2 □	2.2nH±0.1nH, 0.2nH, 0.3nH	2	10	13	21	23	25	8.0	0.8	200
CIH 02T 2N3 □	2.3nH±0.1nH, 0.2nH, 0.3nH	2	10	13	21	23	26	7.0	0.8	200
CIH 02T 2N4 □	2.4nH±0.1nH, 0.2nH, 0.3nH	2	10	13	21	23	25	7.0	0.8	200
CIH 02T 2N5 □	2.5nH±0.1nH, 0.2nH, 0.3nH	2	10	13	21	23	25	7.0	0.8	200
CIH 02T2N6 □	2.6nH±0.1nH, 0.2nH, 0.3nH	2	11	13	22	22	25	7.0	0.8	200
CIH 02T 2N7 □	2.7nH±0.1nH, 0.2nH, 0.3nH	2	11	13	22	23	26	7.0	0.8	200
CIH 02T 2N8 □	2.8nH±0.1nH, 0.2nH, 0.3nH	2	10	13	20	23	26	7.0	0.8	200
CIH 02T 2N9 □	2.9nH±0.1nH, 0.2nH, 0.3nH	2	10	13	20	22	24	7.0	0.8	200
CIH 02T 3N0 □	3.0nH±0.1nH, 0.2nH, 0.3nH	2	10	13	20	21	23	7.0	0.8	200
CIH 02T 3N1 □	3.1nH±0.1nH, 0.2nH, 0.3nH	2	10	13	20	21	24	7.0	0.9	200
CIH 02T 3N2 □	3.2nH±0.1nH, 0.2nH, 0.3nH	2	10	13	21	21	24	7.0	1.0	200
CIH 02T 3N3 □	3.3nH±0.1nH, 0.2nH, 0.3nH	2	10	13	21	23	25	7.0	1.1	180
CIH 02T 3N4 □	3.4nH±0.1nH, 0.2nH, 0.3nH	2	10	12	22	24	25	6.5	1.1	180
CIH 02T 3N5 □	3.5nH±0.1nH, 0.2nH, 0.3nH	2	11	13	22	24	25	6.0	1.1	180
CIH 02T 3N6 □	3.6nH±0.1nH, 0.2nH, 0.3nH	2	10	14	22	24	26	6.0	1.1	180
CIH 02T 3N7 □	3.7nH±0.1nH, 0.2nH, 0.3nH	2	10	12	20	22	25	6.0	1.1	180
CIH 02T 3N8 □	3.8nH±0.1nH, 0.2nH, 0.3nH	2	10	13	20	21	23	6.0	1.1	180
CIH 02T 3N9 □	3.9nH±0.1nH, 0.2nH, 0.3nH	2	10	12	20	22	23	6.0	1.2	180
CIH 02T 4N0 □	4.0nH±0.1nH, 0.2nH, 0.3nH	2	10	13	20	21	24	6.0	1.2	180
CIH 02T 4N3 □	4.3nH±0.3nH, 3%,5%	2	11	13	21	22	24	6.0	1.2	180
CIH 02T 4N7 □	4.7nH±0.3nH, 3%,5%	2	10	13	21	22	25	6.0	1.3	160
CIH 02T 5N1 □	5.1nH±0.3nH, 3%,5%	2	11	14	22	23	25	6.0	1.4	160
CIH 02T 5N6 □	5.6nH±0.3nH, 3%,5%	2	10	13	20	22	25	6.0	1.5	140
CIH 02T 6N2 □	6.2nH±0.3nH, 3%,5%	2	10	14	21	23	23	5.5	1.5	140
CIH 02T 6N8 □	6.8nH±3%, 5%	2	11	13	21	22	22	5.5	1.6	140
CIH 02T 7N5 □	7.5nH±3%, 5%	2	10	14	21	22	24	5.0	1.7	140
CIH 02T 8N2 □	8.2nH±3%, 5%	2	11	13	21	22	24	4.5	1.8	140
CIH 02T 9N1 □	9.1nH±3%, 5%	2	11	14	20	21	23	4.0	1.8	140
CIH 02T 10N □	10nH±3%, 5%	3	11	14	21	22	23	4.0	2.1	140
CIH 02T 12N □	12nH±3%, 5%	3	10	13	17	18	19	3.5	2.4	140
CIH 02T 15N □	15nH±3%, 5%	3	11	13	17	18	18	3.0	2.6	140
CIH 02T 18N □	18nH±3%, 5%	3	10	12	17	16	16	2.5	2.8	140
CIH 02T 22N □	22nH±3%, 5%	3	11	13	14	13	9	2.2	3	130
CIH 02T 27N □	27nH±3%, 5%	3	11	13	13	12	8	1.9	3.2	120
CIH 02T 33N □	33nH±3%, 5%	3	11	12	11	10	-	1.7	3.5	120
CIH 02T 39N □	39nH±3%, 5%	3	11	13	10	7	-	1.5	3.8	100
CIH 02T 47N □	47nH±3%, 5%	3	11	12	12	-	-	1.3	4	80

※ □: Tolerance (B:±0.1nH,C:±0.2nH,S:±0.3nH,H:±3%,J:±5%)

※ Measurement equipment & Jig

- Impedance Measuring equipment & Jig : Agilent E4991A + 16197A Bottom Electrode SMD Test Fixture or Equivalent
- Resistance Measuring equipment & Jig : Agilent 4338B + 16089A Large Kelvin Clip Leads or Equivalent

CIH 0603(0201) Type - Normal

Part No.	Thickness (mm)	Inductance (nH)	Q(Min.) @100MHz	Q (typical) Frequency					SRF [MHz] min.	DC resistance (Ω)Max.	Rated current (mA) Max.
				500MHz	800MHz	1.8GHz	2.0GHz	2.4GHz			
CIH 03T 1N0 □	0.3±0.03	1.0±0.2nH,0.3nH	4	17	20	28	30	33	13000	0.14	300
CIH 03T 1N2 □	0.3±0.03	1.2±0.2nH,0.3nH	4	16	20	28	30	33	10000	0.14	250
CIH 03T 1N3 □	0.3±0.03	1.3±0.2nH,0.3nH	4	16	20	28	30	33	10000	0.14	250
CIH 03T 1N5 □	0.3±0.03	1.5±0.2nH,0.3nH	4	15	20	27	29	32	10000	0.18	230
CIH 03T 1N8 □	0.3±0.03	1.8±0.2nH,0.3nH	4	15	20	27	29	31	10000	0.19	200
CIH 03T 2N0 □	0.3±0.03	2.0±0.2nH,0.3nH	4	15	20	26	28	30	8800	0.22	200
CIH 03T 2N2 □	0.3±0.03	2.2±0.2nH,0.3nH	4	15	20	26	28	30	8800	0.22	200
CIH 03T 2N4 □	0.3±0.03	2.4±0.2nH,0.3nH	5	15	20	26	28	30	7500	0.25	200
CIH 03T 2N7 □	0.3±0.03	2.7±0.2nH,0.3nH	5	15	20	26	28	30	7700	0.25	200
CIH 03T 3N0 □	0.3±0.03	3.0±0.2nH,0.3nH	5	15	20	26	28	30	7200	0.27	200
CIH 03T 3N3 □	0.3±0.03	3.3±0.2nH,0.3nH	5	15	20	26	28	30	6700	0.30	200
CIH 03T 3N6 □	0.3±0.03	3.6±0.2nH,0.3nH	5	15	20	27	29	31	6000	0.30	200
CIH 03T 3N9 □	0.3±0.03	3.9±0.2nH,0.3nH	5	15	20	27	29	31	6000	0.30	200
CIH 03T 4N3 □	0.3±0.03	4.3±0.2nH,0.3nH	5	15	19	26	28	30	5600	0.35	200
CIH 03T 4N7 □	0.3±0.03	4.7±0.2nH,0.3nH	5	15	19	26	28	30	5300	0.40	200
CIH 03T 5N6 □	0.3±0.03	5.6±0.2nH,0.3nH	5	15	19	26	27	28	4600	0.40	200
CIH 03T 6N2 □	0.3±0.03	6.2±0.2nH,0.3nH	5	17	18	23	24	25	4100	0.48	150
CIH 03T 6N8 □	0.3±0.03	6.8±5%	5.5	14	18	23	24	25	4100	0.48	150
CIH 03T 7N5 □	0.3±0.03	7.5±5%	5	14	18	22	23	23	3700	0.51	150
CIH 03T 8N2 □	0.3±0.03	8.2±5%	5	14	18	22	23	23	3400	0.55	150
CIH 03T 10N □	0.3±0.03	10.0±5%	5	14	17	22	22	21	3300	0.63	150
CIH 03T 12N □	0.3±0.03	12.0±5%	6	14	17	21	21	19	3000	0.70	150
CIH 03T 15N □	0.3±0.03	15.0±5%	6	13	16	19	18	14	2700	0.80	100
CIH 03T 18N □	0.3±0.03	18.0±5%	6	13	17	16	14	9	2100	0.90	100
CIH 03T 22N □	0.3±0.03	22.0±5%	5	13	15	14	11	5	1800	1.20	100
CIH 03T 24N □	0.3±0.03	24.0±5%	5	13	15	12	9	3	1800	1.60	100
CIH 03T 27N □	0.3±0.03	27.0±5%	4	12	14	10	7	2	1800	1.80	50
CIH 03T 33N □	0.3±0.03	33.0±5%	4	12	14	8	5	1	1700	2.10	50
CIH 03T 39N □	0.3±0.03	39.0±5%	4	12	13	4	1	-	1500	2.40	50
CIH 03T 47N □	0.3±0.03	47.0±5%	4	11	12	2	-	-	1300	2.80	50
CIH 03T 56N □	0.3±0.03	56.0±5%	4	11	11	-	-	-	1100	3.00	50
CIH 03T 68N □	0.3±0.03	68.0±5%	5	13	11	-	-	-	1050	3.00	50
CIH 03T 82N □	0.3±0.03	82.0±5%	5	12	8	-	-	-	900	4.00	50
CIH 03T R10 □	0.3±0.03	100.0±5%	5	11	-	-	-	-	770	4.50	50

※ □: Tolerance (C:±0.2nH,S:±0.3nH,H:±3%,J:±5%)

※ Measurement equipment & Jig : Agilent E4991A+16196C or Equivalent

CIH 0603(0201) Type - High Q

Part No.	Thickness (mm)	Inductance (nH)	Test Freq. [MHz]	Q (Min.) @500 MHz	Q (typical) Frequency					SRF [MHz] min.	DC resistance (Ω)Max.	Rated current (mA) Max.
					500MHz	800MHz	1.8GHz	2.0GHz	2.4GHz			
CIH 03Q 0N6 □	0.3±0.03	0.6±0.1nH,0.2nH, 0.3nH	500	13	>24	>31	>53	>56	>64	10000	0.06	600
CIH 03Q 0N7 □	0.3±0.03	0.7±0.1nH,0.2nH, 0.3nH	500	13	>24	>31	>53	>56	>64	10000	0.06	600
CIH 03Q 0N8 □	0.3±0.03	0.8±0.1nH,0.2nH, 0.3nH	500	13	>24	>31	>53	>56	>64	10000	0.07	550
CIH 03Q 0N9 □	0.3±0.03	0.9±0.1nH,0.2nH, 0.3nH	500	13	>24	>31	>53	>56	>64	10000	0.07	550
CIH 03Q 1N0 □	0.3±0.03	1.0±0.1nH,0.2nH, 0.3nH	500	13	24	31	53	56	64	10000	0.09	490
CIH 03Q 1N1 □	0.3±0.03	1.1±0.1nH,0.2nH, 0.3nH	500	13	24	31	53	56	64	10000	0.12	420
CIH 03Q 1N2 □	0.3±0.03	1.2±0.1nH,0.2nH, 0.3nH	500	13	22	27	50	55	59	10000	0.12	420
CIH 03Q 1N3 □	0.3±0.03	1.3±0.1nH,0.2nH, 0.3nH	500	13	22	27	50	55	59	10000	0.12	420
CIH 03Q 1N4 □	0.3±0.03	1.4±0.1nH,0.2nH, 0.3nH	500	13	19	24	39	41	47	10000	0.11	440
CIH 03Q 1N5 □	0.3±0.03	1.5±0.1nH,0.2nH, 0.3nH	500	13	19	24	39	41	46	10000	0.11	440
CIH 03Q 1N6 □	0.3±0.03	1.6±0.1nH,0.2nH, 0.3nH	500	13	19	24	39	41	46	10000	0.13	410
CIH 03Q 1N7 □	0.3±0.03	1.7±0.1nH,0.2nH, 0.3nH	500	13	19	24	39	41	46	10000	0.13	410
CIH 03Q 1N8 □	0.3±0.03	1.8±0.1nH,0.2nH, 0.3nH	500	13	18	24	39	41	46	10000	0.16	370
CIH 03Q 1N9 □	0.3±0.03	1.9±0.1nH,0.2nH, 0.3nH	500	13	18	23	37	41	45	10000	0.20	330
CIH 03Q 2N0 □	0.3±0.03	2.0±0.1nH,0.2nH, 0.3nH	500	13	18	23	37	41	45	10000	0.20	330
CIH 03Q 2N1 □	0.3±0.03	2.1±0.1nH,0.2nH, 0.3nH	500	13	17	23	37	39	44	10000	0.20	330
CIH 03Q 2N2 □	0.3±0.03	2.2±0.1nH,0.2nH, 0.3nH	500	13	17	23	37	39	43	10000	0.20	330
CIH 03Q 2N3 □	0.3±0.03	2.3±0.1nH,0.2nH, 0.3nH	500	13	17	23	36	38	43	10000	0.20	330
CIH 03Q 2N4 □	0.3±0.03	2.4±0.1nH,0.2nH, 0.3nH	500	13	17	22	36	38	42	10000	0.20	330
CIH 03Q 2N5 □	0.3±0.03	2.5±0.1nH,0.2nH, 0.3nH	500	13	17	22	34	35	39	9500	0.22	310
CIH 03Q 2N6 □	0.3±0.03	2.6±0.1nH,0.2nH, 0.3nH	500	13	17	22	33	35	39	9300	0.22	310
CIH 03Q 2N7 □	0.3±0.03	2.7±0.1nH,0.2nH, 0.3nH	500	13	17	22	33	35	39	9100	0.22	310
CIH 03Q 2N8 □	0.3±0.03	2.8±0.1nH,0.2nH, 0.3nH	500	13	17	22	33	35	39	8900	0.22	310
CIH 03Q 2N9 □	0.3±0.03	2.9±0.1nH,0.2nH, 0.3nH	500	13	17	22	33	35	39	8700	0.22	310
CIH 03Q 3N0 □	0.3±0.03	3.0±0.1nH,0.2nH, 0.3nH	500	13	17	22	33	39	43	8600	0.30	270
CIH 03Q 3N1 □	0.3±0.03	3.1±0.1nH,0.2nH, 0.3nH	500	13	17	22	33	39	43	8400	0.30	270
CIH 03Q 3N2 □	0.3±0.03	3.2±0.1nH,0.2nH, 0.3nH	500	13	18	22	33	35	39	8200	0.30	270
CIH 03Q 3N3 □	0.3±0.03	3.3±0.1nH,0.2nH, 0.3nH	500	13	18	22	33	35	39	8100	0.30	270
CIH 03Q 3N4 □	0.3±0.03	3.4±0.1nH,0.2nH, 0.3nH	500	13	16	22	33	35	39	8000	0.30	270
CIH 03Q 3N5 □	0.3±0.03	3.5±0.1nH,0.2nH, 0.3nH	500	13	16	22	33	35	39	7800	0.30	270
CIH 03Q 3N6 □	0.3±0.03	3.6±0.1nH,0.2nH, 0.3nH	500	13	16	22	33	35	39	7700	0.30	270
CIH 03Q 3N7 □	0.3±0.03	3.7±0.1nH,0.2nH, 0.3nH	500	13	16	22	33	35	38	7600	0.30	270
CIH 03Q 3N8 □	0.3±0.03	3.8±0.1nH,0.2nH, 0.3nH	500	13	16	22	33	35	38	7500	0.30	270
CIH 03Q 3N9 □	0.3±0.03	3.9±0.1nH,0.2nH, 0.3nH	500	13	16	22	33	35	38	7300	0.30	270
CIH 03Q 4N3 □	0.3±0.03	4.3±3%,5%, 0.3nH	500	13	16	21	32	34	37	6500	0.38	260
CIH 03Q 4N7 □	0.3±0.03	4.7±3%,5%, 0.3nH	500	13	16	21	32	34	37	6200	0.44	220
CIH 03Q 5N1 □	0.3±0.03	5.1±3%,5%, 0.3nH	500	13	16	21	32	34	37	5900	0.44	220
CIH 03Q 5N6 □	0.3±0.03	5.6±3%,5%, 0.3nH	500	13	16	21	32	34	37	5500	0.47	210
CIH 03Q 6N2 □	0.3±0.03	6.2±3%,5%, 0.3nH	500	13	16	21	32	33	36	5100	0.47	210
CIH 03Q 6N8 □	0.3±0.03	6.8±3%,5%	500	13	16	21	31	32	35	4800	0.55	190
CIH 03Q 7N5 □	0.3±0.03	7.5±3%,5%	500	13	16	20	30	32	34	4600	0.61	190
CIH 03Q 8N2 □	0.3±0.03	8.2±3%,5%	500	13	16	20	30	31	33	4300	0.57	190
CIH 03Q 9N1 □	0.3±0.03	9.1±3%,5%	500	13	16	20	30	30	32	4000	0.73	170
CIH 03Q 10N □	0.3±0.03	10.0±3%,5%	500	13	16	20	28	29	31	3800	0.73	170
CIH 03Q 12N □	0.3±0.03	12.0±3%,5%	500	12	16	20	27	27	27	3300	0.85	160
CIH 03Q 15N □	0.3±0.03	15.0±3%,5%	500	12	15	19	24	24	23	2600	0.89	150
CIH 03Q 18N □	0.3±0.03	18.0±3%,5%	500	11	15	19	23	23	21	2300	1.05	140
CIH 03Q 22N □	0.3±0.03	22.0±3%,5%	500	10	15	19	22	22	19	1900	1.29	130

※ □: Tolerance (B:±0.1nH,C:±0.2nH,S:±0.3nH,H:±3%,J:±5%)

※ Measurement equipment & Jig

- Impedance Measuring equipment & Jig : Agilent E4991A + 16197A Bottom Electrode SMD Test Fixture or Equivalent
- Resistance Measuring equipment & Jig : Agilent 4338B + 16089A Large Kelvin Clip Leads or Equivalent

CIH 0603(0201) Type - High Q

Part No.	Thickness (mm)	Inductance (nH)	Test Freq. [MHz]	Q (Min.) @500 MHz	Q (typical) Frequency					SRF [MHz] min.	DC resistance (Ω)Max.	Rated current (mA) Max.
					500MHz	800MHz	1.8GHz	2.0GHz	2.4GHz			
CIH 03Q 27N □	0.3±0.03	27.0±5%	500	14	18	21	18	15	-	2200	1.9	140
CIH 03Q 33N □	0.3±0.03	33.0±5%	300	10	16	17	11	-	-	1800	2.0	140
CIH 03Q 39N □	0.3±0.03	39.0±5%	300	10	15	17	-	-	-	1800	2.1	130
CIH 03Q 47N □	0.3±0.03	47.0±5%	300	10	16	17	-	-	-	1600	2.6	120
CIH 03Q 56N □	0.3±0.03	56.0±5%	300	10	15	15	-	-	-	1400	3.3	110
CIH 03Q 68N □	0.3±0.03	68.0±5%	300	9	15	15	-	-	-	1200	3.3	110
CIH 03Q 82N □	0.3±0.03	82.0±5%	300	9	15	14	-	-	-	1200	3.8	100
CIH 03Q R10 □	0.3±0.03	100.0±5%	300	9	14	12	-	-	-	900	4.3	90

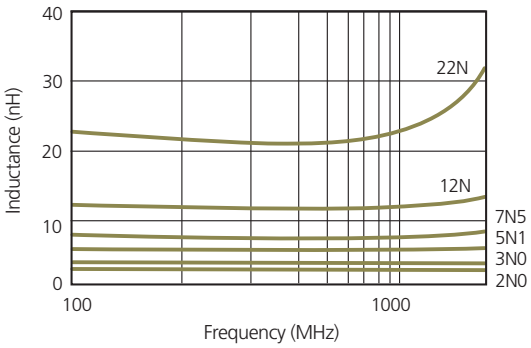
※ □: Tolerance (B:±0.1nH,C:±0.2nH,S:±0.3nH,H:±3%,J:±5%)

※ Measurement equipment & Jig

- Impedance Measuring equipment & Jig : Agilent E4991A + 16197A Bottom Electrode SMD Test Fixture or Equivalent
- Resistance Measuring equipment & Jig : Agilent 4338B + 16089A Large Kelvin Clip Leads or Equivalent

CIH 0603(0201) Type - High Q

INDUCTANCE



Q CHARACTERISTIC