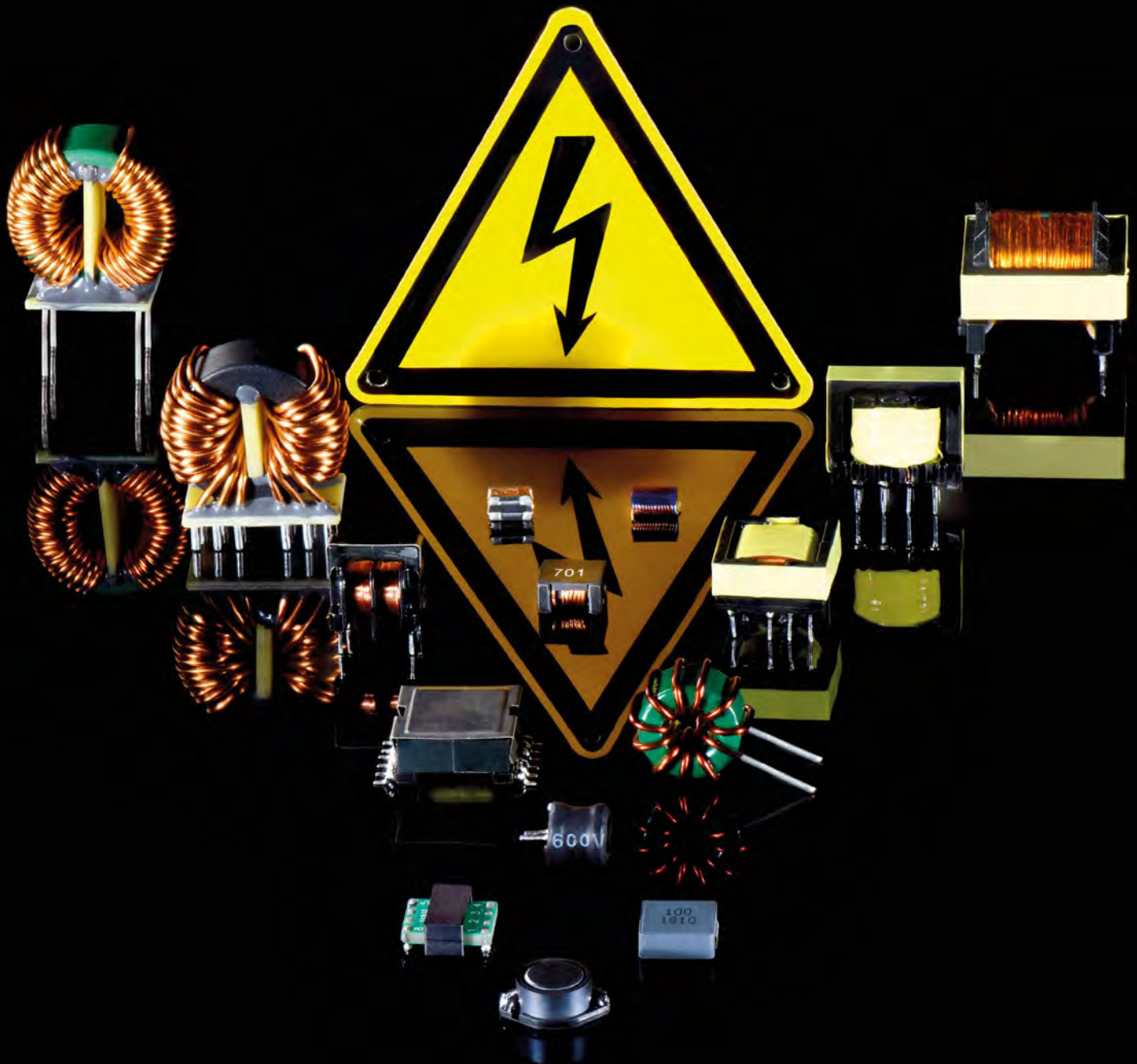


knitter-inductive

Standard Products Overview Tailor Made Inductors, CMCs and Transformers



**Standard and customized
inductive components**

About Us

knitter-inductive is a new dynamic brand of knitter-switch for Inductive components.

We are specialized in customized Inductors, Common mode Chokes and Transformers even for smaller quantities. knitter-inductive is providing especially solutions for switch-mode power supplies, line filters, EMI protection, DC/AC converters for the solar and wind-power industry and many other applications.

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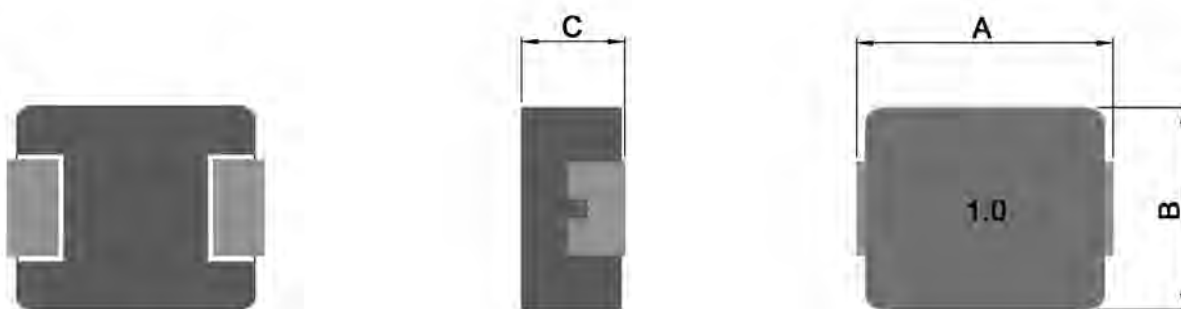
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Inductors

Shielded Power Inductors: 20-47-Series Overview

- > EMC shielded construction
- > Carbonyl Powder Core
- > Low DCR versions available
- > Temperature ranges of -40°C to +125°C
- > Typical applications are DC/DC converters, SMPS, Battery powered devices

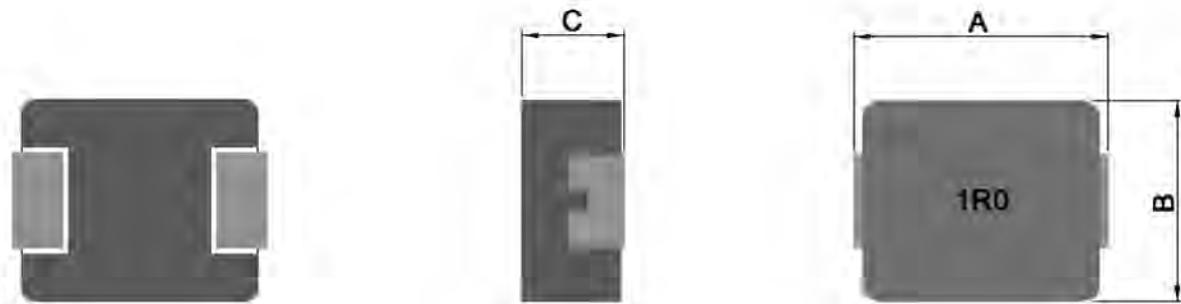


knitter-inductive	A(mm)	B(mm)	C(mm)	Inductance (µH)	Isat range (A)
ICSIxxxxx26SHyST12	3.50±0.2	3.20±0.2	1.00±0.2	0,15 - 10,00	1,40 - 14,00
ICSIxxxxx27SHyST12	3.50±0.3	3.20±0.2	1.30±0.2	0,22 - 10,00	1,60 - 10,80
ICSIxxxxx28SHyST12	3.50±0.3	3.20±0.2	1.60±0.2	0,47 - 15,00	1,50 - 8,50
ICSIxxxxx20SHyST12	3.50±0.2	3.20±0.2	1.80±0.2	0,10 - 10,00	1,60 - 14,00
ICSIxxxxx29SHyST12	4.45±0.25	4.06±0.25	1.00±0.20	0,10 - 10,00	1,40 - 25,00
ICSIxxxxx30SHyST12	4.45±0.25	4.06±0.25	1.30±0.20	0,047 - 10,00	1,90 - 48,00
ICSIxxxxx31SHyST12	4.45±0.25	4.06±0.25	1.60±0.20	0,56 - 10,00	2,10 - 9,00
ICSIxxxxx21SHyST12	4.45±0.25	4.06±0.25	1.80±0.20	0,10 - 22,00	1,40 - 35,00
ICSIxxxxx32SHyST12	5.70±0.3	5.20±0.2	1.00±0.2	0,10 - 10,00	1,80 - 14,50
ICSIxxxxx33SHyST12	5.70±0.3	5.20±0.2	1.30±0.2	0,12 - 10,00	2,30 - 28,00
ICSIxxxxx34SHyST12	5.70±0.3	5.20±0.2	1.60±0.2	0,15 - 10,00	2,80 - 27,00
ICSIxxxxx25SHyST12	5.70±0.3	5.20±0.2	1.80±0.2	0,10 - 10,00	3,40 - 45,00
ICSIxxxxx22SHyST12	5.70±0.3	5.20±0.2	2.80±0.2	0,10 - 33,00	1,60 - 27,00
ICSIxxxxx35SHyST12	7.00±0.3	6.60±0.3	1.00±0.2	0,10 - 10,00	2,50 - 30,00
ICSIxxxxx36SHyST12	7.00±0.3	6.60±0.3	1.30±0.2	0,10 - 10,00	2,80 - 35,00
ICSIxxxxx37SHyST12	7.00±0.3	6.60±0.3	1.60±0.2	0,10 - 10,00	3,50 - 45,00
ICSIxxxxx38SHyST12	7.00±0.3	6.60±0.3	1.80±0.2	0,10 - 10,00	4,00 - 40,00
ICSIxxxxx39SHyST12	7.30±0.3	6.60±0.3	2.20±0.2	0,10 - 10,00	5,00 - 50,00
ICSIxxxxx40SHyST12	7.30±0.3	6.60±0.3	2.80±0.2	0,10 - 22,00	3,50 - 60,00
ICSIxxxxx23SHyST12	7.30±0.3	6.60±0.3	3.80±0.2	0,12 - 47,00	2,50 - 64,00
ICSIxxxxx41SHyST12	7.30±0.3	6.60±0.3	4.80±0.2	0,10 - 22,00	5,50 - 65,00
ICSIxxxxx24SHyST12	11.0±0.5	10.0±0.3	3.80±0.2	0,15 - 82,00	2,50 - 75,00
ICSIxxxxx43SHyST12	11.0±0.5	10.0±0.3	4.80±0.2	0,30 - 22,00	9,00 - 65,00
ICSIxxxxx44SHyST12	13.5±0.5	12.5±0.3	3.30±0.2	1,00 - 10,00	14,00 - 40,00
ICSIxxxxx45SHyST12	13.5±0.5	12.5±0.3	4.80±0.2	0,20 - 22,00	10,00 - 110,00
ICSIxxxxx46SHyST12	13.5±0.5	12.5±0.3	5.70±0.3	0,47 - 33,00	8,00 - 60,00
ICSIxxxxx47SHyST12	13.5±0.5	12.5±0.3	6.20±0.3	0,15 - 47,00	9,50 - 118,00

Inductors

Shielded Power Inductors: H-Series Overview

- > EMC shielded construction
- > FeSiCr Powder Core
- > Low loss type with high saturation magnetic induction strength
- > Very small pack size on the PCB
- > Temperature ranges of -40°C to +125°C
- > Typical applications are DC/DC convertors, Battery powered devices, PoL convertor

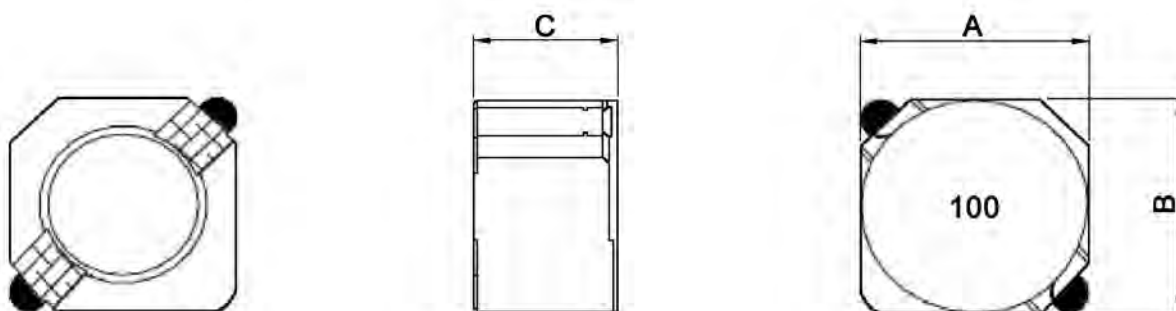


knitter-inductive Series	A(mm)	B(mm)	C(mm)	Inductance range (μH)	Isat range (A)
ICSIxxxxxxH1SHyST12	4.40±0.35	4.00±0.25	1.00±0.20	0,47 - 4,70	2,80 - 6,80
ICSIxxxxxxH2SHyST12	4.40±0.35	4.00±0.25	1.30±0.20	0,47 - 4,70	2,80 - 9,00
ICSIxxxxxxH3SHyST12	4.40±0.35	4.00±0.25	1.80±0.20	0,10 - 10,00	2,20 - 22,00
ICSIxxxxxxH4SHyST12	5.40±0.35	5.20±0.25	1.60±0.2	0,56 - 10,00	3,00 - 15,00
ICSIxxxxxxH5SHyST12	5.40±0.35	5.20±0.25	1.80±0.2	0,10 - 10,00	2,20 - 25,00
ICSIxxxxxxH6SHyST12	5.40±0.35	5.20±0.25	2.80±0.2	0,47 - 10,00	3,50 - 12,00
ICSIxxxxxxH7SHyST12	7.00±0.35	6.60±0.25	1.60±0.2	0,10 - 10,00	2,50 - 38,00
ICSIxxxxxxH8SHyST12	7.00±0.35	6.60±0.25	2.20±0.2	0,47 - 10,00	4,00 - 19,00
ICSIxxxxxxH9SHyST12	7.00±0.35	6.60±0.25	2.80±0.2	0,10 - 33,00	2,00 - 60,00
ICSIxxxxxxHASHyST12	7.00±0.45	6.60±0.35	3.80±0.2	0,22 - 10,00	5,00 - 32,00
ICSIxxxxxxHBSHyST12	7.00±0.45	6.60±0.35	4.80±0.2	0,22 - 47,00	2,50 - 35,00
ICSIxxxxxxHCSHyST12	7.80±0.30	7.20±0.20	4.80±0.2	2,20 - 56,00	3,00 - 14,00
ICSIxxxxxxHDSHyST12	10.95±0.35	10.30±0.35	2.80±0.2	0,12 - 47,00	3,00 - 75,00
ICSIxxxxxxHESHyST12	10.95±0.35	10.30±0.35	3.80±0.2	0,15 - 47,00	4,00 - 60,00
ICSIxxxxxxHFSHyST12	10.95±0.35	10.30±0.35	4.80±0.2	0,82 - 47,00	5,00 - 39,00
ICSIxxxxxxHGSHyST12	13.45±0.35	12.60±0.35	4.80±0.2	0,22 - 47,00	5,00 - 75,00
ICSIxxxxxxHHSHyST12	13.45±0.35	12.60±0.35	5.80±0.2	1,50 - 68,00	4,50 - 28,00
ICSIxxxxxxHISHyST12	17.45±0.35	17.00±0.35	6.80±0.2	1,00 - 68,00	6,50 - 62,00

Inductors

Shielded Power Inductors: R-Series Overview

- > EMC shielded construction
- > NiZn DR + RI Powder Core
- > Low DCR versions available
- > Very low height design
- > Temperature ranges of -40°C to +125°C
- > Typical applications are DC/DC convertors, Battery powered devices, Embedded PCs

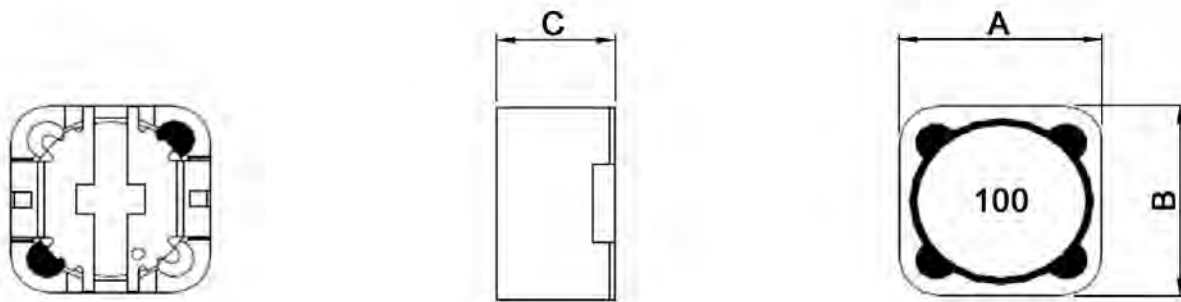


knitter-inductive Series	A(mm)	B(mm)	C(mm)	Inductance range (µH)	Isat range (A)
ICSIxxxxxxR1SHyST12	3,30	3,30	1,60	1,50 - 12,00	0,62 - 1,80
ICSIxxxxxxR2SHyST12	3,20	3,20	2,10	2,20 - 47,00	0,20 - 0,85
ICSIxxxxxxR3SHyST12	4,20	4,20	1,60	1,20 - 22,00	0,52 - 2,15
ICSIxxxxxxR4SHyST12	4,20	4,20	1,80	1,50 - 33,00	0,32 - 1,55
ICSIxxxxxxR5SHyST12	4,20	4,20	1,80	1,50 - 100,00	0,18 - 1,55
ICSIxxxxxxR6SHyST12	4,20	4,20	2,10	3,00 - 47,00	0,35 - 1,60
ICSIxxxxxxR7SHyST12	4,20	4,20	3,00	3,30 - 22,00	0,76 - 2,00
ICSIxxxxxxR8SHyST12	5,00	5,00	2,00	1,00 - 180,00	0,14 - 1,72
ICSIxxxxxxR9SHyST12	5,00	5,00	3,00	1,20 - 330,00	0,17 - 2,56
ICSIxxxxxxRASHyST12	6,00	6,00	2,00	3,30 - 180,00	0,21 - 2,00
ICSIxxxxxxRBSHyST12	6,00	6,00	3,00	2,20 - 680,00	0,16 - 2,60
ICSIxxxxxxRCSHyST12	7,00	7,00	3,00	3,30 - 1000,00	0,21 - 2,80
ICSIxxxxxxRDSHyST12	7,00	7,00	4,00	1,50 - 470,00	0,32 - 5,20
ICSIxxxxxxRESHyST12	8,30	8,30	3,10	2,50 - 220,00	0,55 - 5,40
ICSIxxxxxxRFSHyST12	8,30	8,30	4,00	1,00 - 100,00	0,80 - 6,60
ICSIxxxxxxRGSHyST12	8,30	8,30	4,50	2,00 - 100,00	0,90 - 6,40
ICSIxxxxxxRHSHyST12	8,30	8,30	6,00	3,90 - 100,00	0,80 - 4,10
ICSIxxxxxxRISHyST12	10,50	10,50	3,10	2,20 - 150,00	0,84 - 6,70
ICSIxxxxxxRJSHyST12	10,50	10,50	4,10	1,50 - 330,00	0,52 - 10,00
ICSIxxxxxxRKSHyST12	10,50	10,50	5,10	0,80 - 470,00	0,60 - 13,50

Inductors

Shielded Power Inductors: D-Series Overview

- > EMC shielded construction
- > Ferrite NiZn Core
- > Low DCR versions available
- > Very small pack size on the PCB
- > Temperature ranges of -40°C to +125°C
- > Typical applications are DC/DC convertors, SMPS, Buck/Boost convertors, Lightning

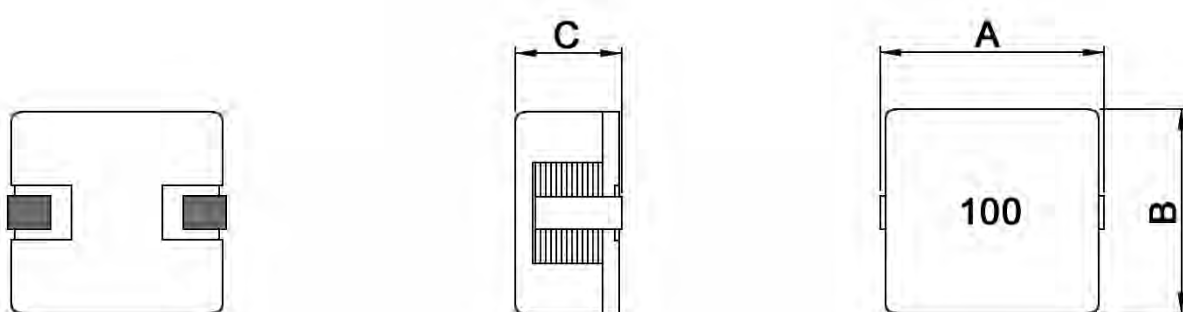


knitter-inductive Series	A(Max)	B(Max)	C(Max)	Inductance range (µH)	Isat range (A)
ICSIxxxxxxD1SHyST12	6.8	7.0	3.0	3,30 - 330,00	0,19 - 1,94
ICSIxxxxxxD2SHyST12	6.8	7.0	5.0	10,00 - 1000,00	0,14 - 1,35
ICSIxxxxxxD3SHyST12	7.8	7.8	4.0	10,00 - 1000,00	0,16 - 1,68
ICSIxxxxxxD4SHyST12	7.8	7.8	5.0	1,00 - 1000,00	0,18 - 4,50
ICSIxxxxxxD5SHyST12	10.5	10.5	5.0	4,70 - 470,00	0,36 - 3,20
ICSIxxxxxxD6SHyST12	12.5	12.5	5.0	1,00 - 330,00	0,50 - 8,00
ICSIxxxxxxD7SHyST12	12.5	12.5	6.0	1,00 - 680,00	0,48 - 8,00
ICSIxxxxxxD8SHyST12	12.5	12.5	8.0	1,00 - 1000,00	0,55 - 12,00
ICSIxxxxxxD9SHyST12	12.5	12.5	10.0	1,00 - 680,00	1,00 - 25,50
ICSIxxxxxxDLSHyST12	7.6	7.6	4.5	22,00	1.50
ICSIxxxxxxDNSHyST12	12.5	12.5	4.5	3,90 - 330,00	0,50 - 6,50
ICSIxxxxxxDOSHyST12	12.5	12.5	6.5	1,00 - 1000,00	0,40 - 8,00
ICSIxxxxxxDPSHyST12	12.5	12.5	8.1	4,70 - 1000,00	0,55 - 6,80
ICSIxxxxxxDQSHyST12	12.5	12.5	10.3	1,00 - 1000,00	0,70 - 19,50

Inductors

Shielded Power Inductors flat wire: F-Series Overview

- > EMC shielded construction
- > Magnetic DQ Powder Core
- > Flat wire design for low DCR values and high current at high frequencies
- > Very small pack size on the PCB
- > Temperature ranges of -40°C to +150°C
- > Typical applications are high current/high frequency converters, Industrial PC

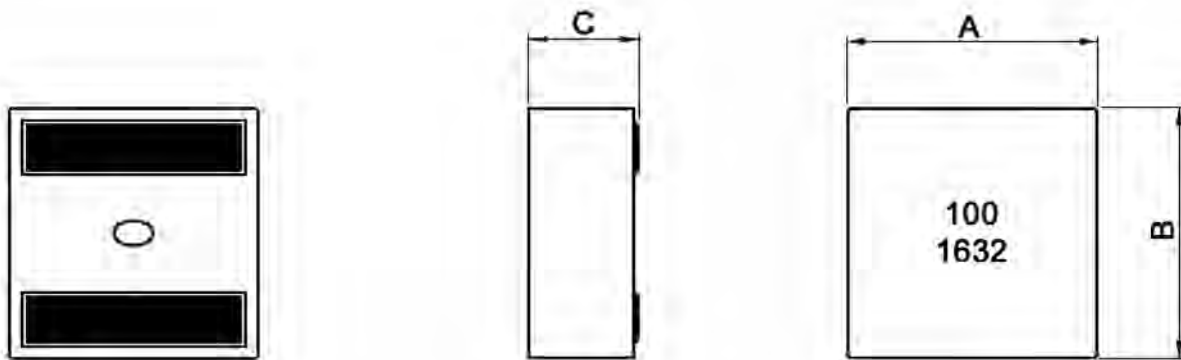


knitter-inductive Series	A (mm)	B (mm)	C (mm)	Inductance range (μH)	Isat range (A)
ICSIxxxxxxF1SHyST12	5.6±0.3	5.3±0.3	4.0±0.3	0,33 - 5,60	4,60 - 20,00
ICSIxxxxxxF2SHyST12	7.0±0.3	6.9±0.3	3.0±0.3	0,13 - 2,00	9,00 - 48,00
ICSIxxxxxxF3SHyST12	7.0±0.3	6.9±0.3	3.8±0.3	0,22 - 4,70	7,00 - 32,00
ICSIxxxxxxF4SHyST12	7.0±0.3	6.9±0.3	4.8±0.3	0,24 - 10,00	4,00 - 28,00
ICSIxxxxxxF5SHyST12	10.6±0.3	10.6±0.3	2.8±0.3	0,20 - 2,20	15,00 - 50,00
ICSIxxxxxxF6SHyST12	10.2±0.5	10.2±0.5	4.0±0.3	0,30 - 5,60	7,50 - 35,00
ICSIxxxxxxF7SHyST12	10.5±1.0	10.2±0.5	4.7±0.3	0,16 - 16,00	6,50 - 58,00
ICSIxxxxxxF8SHyST12	10.5±1.0	10.2±0.5	8.0±0.5	0,68 - 47,00	5,40 - 100,00
ICSIxxxxxxF9SHyST12	12.9±0.5	12.8±0.5	3.3±0.3	0,25 - 3,30	14,00 - 60,00
ICSIxxxxxxFASHyST12	13.0±1.0	12.8±0.5	4.7±0.3	0,19 - 10,00	10,00 - 60,00
ICSIxxxxxxFBSHyST12	13.0±1.0	12.8±0.5	6.2±0.3	0,20 - 33,00	5,50 - 65,00
ICSIxxxxxxFCSHyST12	18.3±1.0	18.2±0.5	8.9±0.3	0,82 - 47,00	7,00 - 65,00
ICSIxxxxxxFDSHyST12	22.5±1.0	22.0±1.0	12.0±0.5	3,30 - 82,00	8,50 - 45,00

Inductors

Shielded Power Inductors flat wire: I-Series Overview

- > EMC shielded construction
- > Alloy Powder Core
- > Flat wire design for low DCR values and high current at high frequencies
- > Very small pack size on the PCB due to face down termination
- > Temperature ranges of -40°C to +125°C
- > Typical applications are high current/high frequency convertors, Industrial PC, Battery powered devices

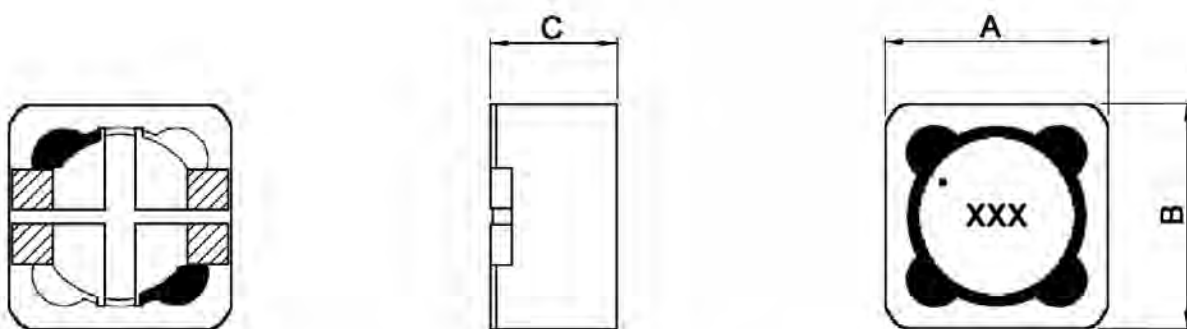


knitter-inductive Series	A(mm)	B(mm)	C(mm)	Inductance range (µH)	Isat range (A)
ICSIxxxxxxI1SHyST12	4.1±0.2	4.1±0.2	1.9±0.2	0,10 - 2,20	6,00 - 33,00
ICSIxxxxxxIASHyST12	4.1±0.3	4.1±0.3	2.8±0.2	4,70 - 6,80	4,13 - 4,62
ICSIxxxxxxI2SHyST12	5.5±0.2	5.3±0.2	1.9±0.2	0,15 - 1,50	11,70 - 27,00
ICSIxxxxxxI3SHyST12	5.5±0.2	5.3±0.2	2.9±0.2	0,15 - 4,70	7,00 - 32,50
ICSIxxxxxxI4SHyST12	6.6±0.2	6.4±0.2	2.8 to 2.9±0.2	0,18 - 4,50	8,00 - 36,00
ICSIxxxxxxI5SHyST12	6.6±0.2	6.4±0.2	4.8±0.2	0,82 - 8,20	6,80 - 20,00
ICSIxxxxxxI6SHyST12	6.6±0.2	6.4±0.2	5.8±0.2	2,20 - 22,00	5,00 - 12,00
ICSIxxxxxxI7SHyST12	7.80±0.25	7.60±0.20	1.85±0.2	0,27 - 1,00	20,00 - 32,00
ICSIxxxxxxI8SHyST12	7.80±0.25	7.60±0.20	2.90±0.2	0,60 - 10,00	7,00 - 32,00
ICSIxxxxxxI9SHyST12	7.80±0.25	7.60±0.25	6.70±0.3	3,30 - 4,70	14,00 - 15,10

Inductors

Shielded Coupled Inductors: S-Series Overview

- > Coupled Inductors for SEPIC convertor
- > From 7.5 x 7.5 x 4.5 mm (LxWxH)
- > To 12.5 x 12.5 x 8.0 mm (LxWxH)
- > Inductance values from 3.30 μ H to 1 mH
- > Ferrite NiZn core
- > Shielded Design saves space on PCB
- > Low DCR

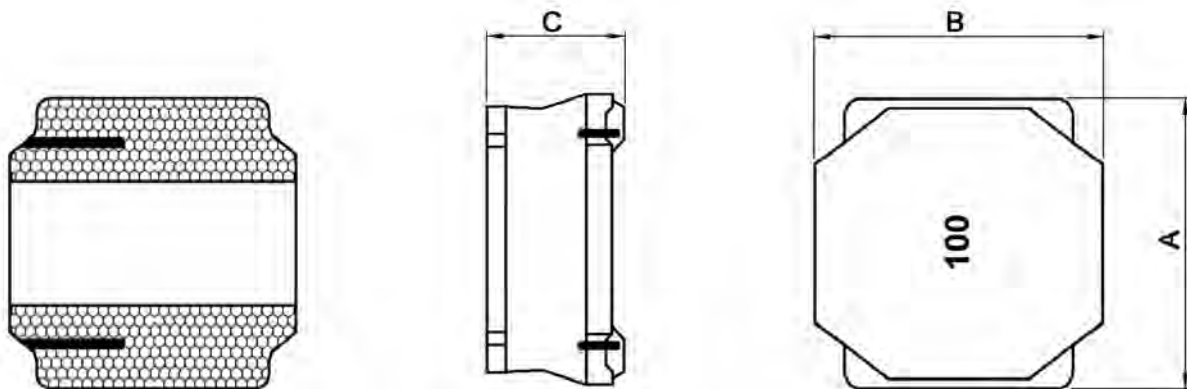


knitter-inductive Series	A(mm)	B(mm)	C(mm)	Inductance range (μ H)	Isat range (A)
ICSCxxxxxS2SHyST12	7.50	7.50	4.50	6.80 - 1000	0.22 - 3.00
ICSCxxxxxS3SHyST12	12.50	12.50	6.00	2.20 - 560	0.50 - 9.80
ICSCxxxxxS4SHyST12	12.50	12.50	8.00	3.30 - 600	0.88 - 13.00

Inductors

Semi-Shielded Power Inductors: N-Series Overview

- > Semi shielded construction
- > NiZn Ferrite Core
- > Magnetically shielded by magnetic epoxy
- > Very compact design and small pack size on the PCB
- > Temperature ranges of -40°C to +125°C
- > Typical applications are DC/DC convertors, SMPS, Embedded PCs

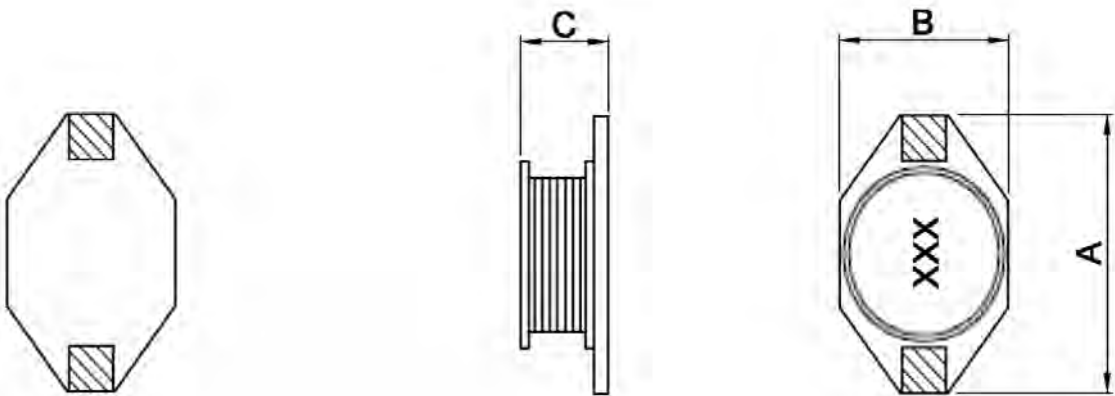


knitter-inductive Series	A(mm)	B(mm)	C(mm) max.	Inductance range (µH)	Isat range (A)
ICSIxxxxxN1SHyT12	2.5±0.2	2.0±0.2	1.0	0,47 - 10,00	0,65 - 2,50
ICSIxxxxxN2SHyT12	2.5±0.2	2.0±0.2	1.2	0,33 - 22,00	0,54 - 4,00
ICSIxxxxxN3SHyT12	2.0±0.2	1.6±0.2	1.1	0,24 - 10,00	0,60 - 4,50
ICSIxxxxxN4SHyT12	3.0±0.2	3.0±0.2	1.0	1,00 - 56,00	0,21 - 1,45
ICSIxxxxxN5SHyT12	3.0±0.2	3.0±0.2	1.2	0,82 - 100,00	0,25 - 2,47
ICSIxxxxxN6SHyT12	3.0±0.2	3.0±0.2	1.5	1,00 - 68,00	0,28 - 2,30
ICSIxxxxxN7SHyT12	4.0±0.2	4.0±0.2	1.3	0,82 - 100,00	0,25 - 3,15
ICSIxxxxxN8SHyT12	4.0±0.2	4.0±0.2	2.0	1,00 - 220,00	0,27 - 4,00
ICSIxxxxxN9SHyT12	4.0±0.2	4.0±0.2	2.0	1,00 - 100,00	0,48 - 4,78
ICSIxxxxxNASHyT12	4.0±0.2	4.0±0.2	3.0	0,91 - 120,00	0,55 - 6,25
ICSIxxxxxNBSHyT12	5.0±0.3	5.0±0.3	1.3	1,00 - 15,00	1,25 - 4,40
ICSIxxxxxNCSHyT12	5.0±0.2	5.0±0.2	2.0	0,47 - 22,00	1,15 - 6,15
ICSIxxxxxNDSHyT12	5.0±0.2	5.0±0.2	4.0	1,00 - 100,00	0,75 - 7,35
ICSIxxxxxNESHyT12	6.0±0.3	6.0±0.3	2.0	0,50 - 22,00	1,05 - 4,50
ICSIxxxxxNFSHyT12	6.0±0.3	6.0±0.3	2.8	0,90 - 100,00	0,62 - 6,60
ICSIxxxxxNGSHyT12	6.0±0.3	6.0±0.3	4.5	0,82 - 330,00	0,57 - 10,40
ICSIxxxxxNHSHyT12	8.0±0.3	8.0±0.3	4.2	0,82 - 330,00	0,68 - 13,80

Inductors

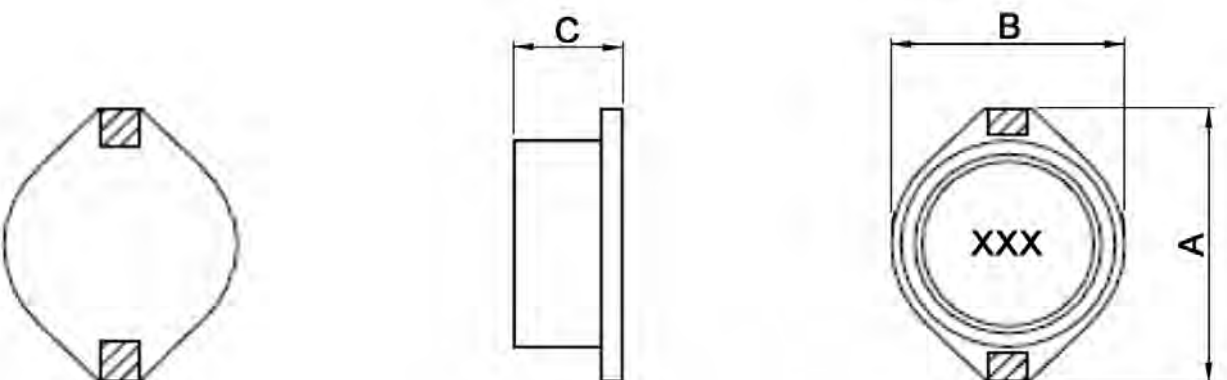
Non-Shielded Power Inductors: E-Series Overview

- > Open / unshielded construction
- > Ferrite MnZn Core
- > Low DCR versions available
- > High mechanical stability on the PCB
- > Temperature ranges of -40°C to +125°C
- > Typical applications are DC / DC convertors, SMPS



Unshielded:

knitter-inductive Series	A(Max)	B(Max)	C(Max)	Inductance range (µH)	Isat range (A)
ICSIxxxxxE1SHyT12	6,60	4,45	2,92	1 – 1.000	0,10 - 2,90
ICSIxxxxxE2SHyT12	12,95	9,40	3,00	10 – 1.000	0,10 - 2,40
ICSIxxxxxE3SHyT12	12,95	9,40	5,21	1 – 1.000	0,30 - 9,00
ICSIxxxxxE4SHyT12	12,95	9,40	11,43	1 – 1.000	0,80 - 11,60
ICSIxxxxxE5SHyT12	18,54	15,24	7,11	1 – 1.000	1,00 - 20,00
ICSIxxxxxE6SHyT12	18,54	15,24	12,0	4.700	0,90
ICSIxxxxxE7SHyT12	18,54	15,24	12,0	8.000	0,35



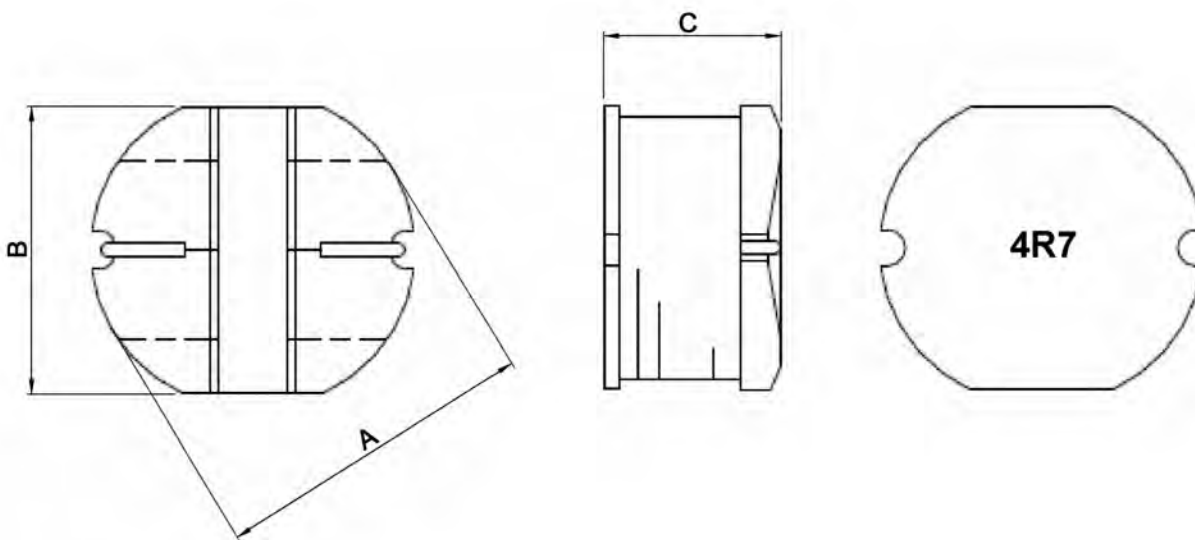
Shielded:

knitter-inductive Series	A(Max)	B(Max)	C(Max)	Inductance range (µH)	Isat range (A)
ICSIxxxxxE1SHyST12	6,60	4,45	2,92	1 – 10.000	0,17 - 3,00
ICSIxxxxxE3SHyST12	12,95	10,20	5,21	1 - 680	0,31 - 5,60
ICSIxxxxxE5SHyST12	18,54	15,24	7,62	1 – 1.000	0,80 - 20,00

Inductors

Non-Shielded Power Inductors: B-Series Overview

- > Open/unshielded construction
- > Ferrite DR Core
- > Class H wire (180°C rated) used
- > Low DCR versions available
- > Temperature ranges of -40°C to +125°C
- > Typical applications are Input/Output inductors of DC/DC converters and switch mode power supplies (SMPS)



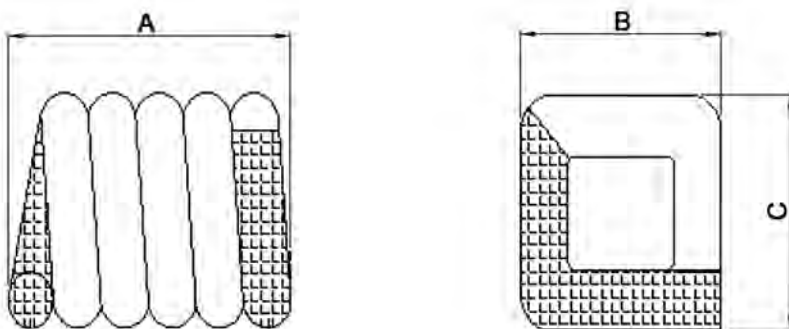
knitter-inductive Series	A (mm) (max.)	B (mm) (max.)	C (mm) (max.)	Inductance range (µH)	Isat range (A)
ICSIxxxxxB1SHyT12	3,50±0,3	3,00±0,3	1,50±0,3	1,00 - 100,00	0,19 - 1,60
ICSIxxxxxB2SHyT12	3,50±0,3	3,00±0,3	2,00±0,3	1,00 - 330,00	0,10 - 3,34
ICSIxxxxxB3SHyT12	4,50±0,3	4,00±0,3	3,20±0,3	1,00 - 330,00	0,20 - 3,80
ICSIxxxxxB5SHyT12	5,80±0,3	5,20±0,3	3,00±0,3	1,00 - 330,00	0,28 - 4,50
ICSIxxxxxB6SHyT12	5,80±0,3	5,20±0,3	4,50±0,3	1,00 - 1000,00	0,12 - 5,00
ICSIxxxxxB7SHyT12	7,80±0,3	7,00±0,3	3,50±0,3	1,00 - 120,00	0,49 - 7,00
ICSIxxxxxB8SHyT12	7,80±0,3	7,00±0,3	5,00±0,3	1,00 - 3300,00	0,17 - 7,50
ICSIxxxxxB9SHyT12	10,00±0,3	9,00±0,3	4,00±0,3	1,00 - 560,00	0,32 - 8,70
ICSIxxxxxBASHyT12	10,00±0,3	9,00±0,3	5,40±0,3	10,00 - 1000,00	0,20 - 2,60

Inductors

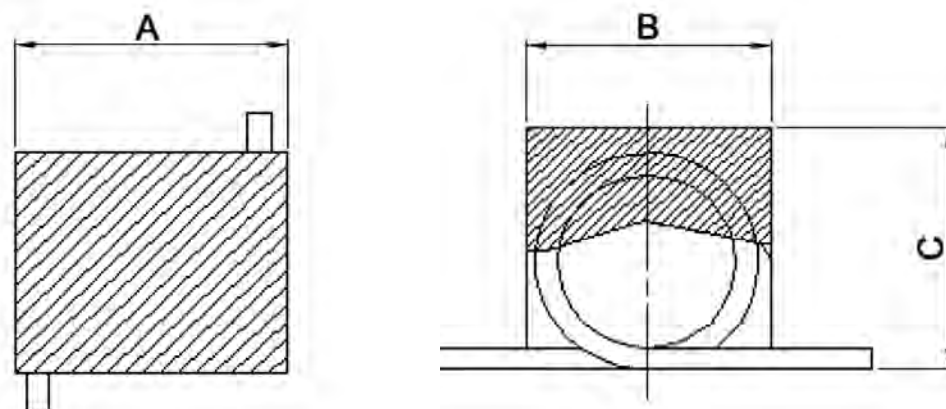
Air chokes SMD: A-Series Overview

- > Plastic cap for fast and reliable pick and place assembling
- > High Q values
- > Excellent self-resonance values
- > Inductance tolerance values of $\pm 2\%$ available
- > Temperature range from -40°C to $+85^{\circ}\text{C}$

A1 – A6 Series



A7 – AC Series

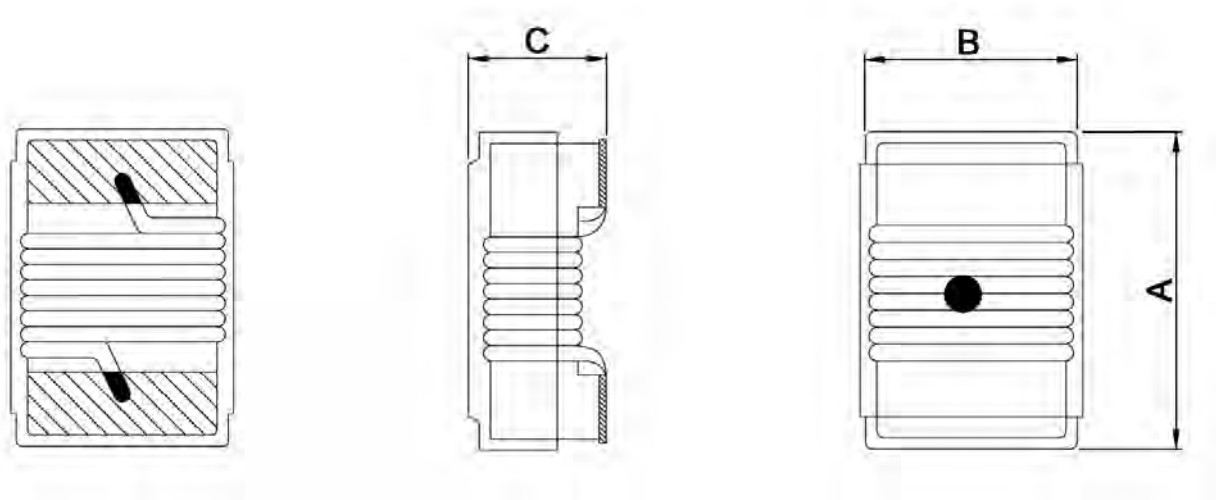


knitter-inductive Series	A(mm)	B(mm)	C(mm)	Inductance range (μH)	IDC range (A)	Pick and Place Cap
ICSIxxxxxA1SHyT14	1,35 - 2,59	1,83	1,39	0,0055 - 0,0194	2,90	-
ICSIxxxxxA2SHyT14	1,29 - 2,59	1,83	1,52	0,0069 - 0,022	2,70	-
ICSIxxxxxA3SHyT14	1,47 - 2,97	2,13	1,83	0,0081 - 0,0273	4,40	-
ICSIxxxxxA4SHyT14	2,67 - 3,30	2,67	2,79	0,027 - 0,047	4,40 - 5,50	-
ICSIxxxxxA5SHyT14	4,06 - 5,84	3,56	3,73	0,047 - 0,082	4,90 - 5,60	-
ICSIxxxxxA6SHyT14	5,21 - 11,69	5,46 - 5,72	5,69	0,09 - 0,30	3,70 - 5,70	-
ICSIxxxxxA7SHyT14	2,41	1,40	1,52	0,00165 - 0,0054	1,60	yes
ICSIxxxxxA8SHyT14	3,80	2,80	2,90	0,0025 - 0,0185	4,00	yes
ICSIxxxxxA9SHyT14	4,19	1,40	1,58	0,0056 - 0,01255	1,60	yes
ICSIxxxxxAASHyT14	4,95	3,81	4,20	0,022 - 0,22	0,80 - 3,50	yes
ICSIxxxxxABSHyT14	6,30	2,60	2,60	0,0175 - 0,043	4,00	yes
ICSIxxxxxACSHyT14	9,00	4,40	4,60	0,09 - 0,538	2,00 - 3,50	yes

Inductors

Wirewound Inductors: W-Series Overview unshielded

- > Ceramic types with excellent Q and SRF characteristics for RF application
- > Ceramic types are widely used for communication system front-end circuits like GSM/3G/LTE/Wi-Fi/GPS
- > Ferrite types with Low DCR and high Q rating
- > Ferrite types are widely used as signal and noise suppressing inductors
- > Temperature ranges of -55°C to 125°C

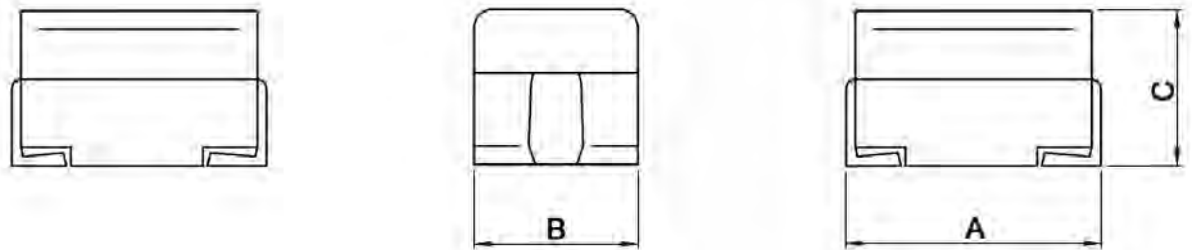


knitter-inductive Series	Inch Size	A(mm)	B(mm)	C(mm)	Inductance range	IDC range (mA)	Bobbin material	Purpose
ICSIxxxxxxW1SHyT22	0402	1.10 max.	0.65 max.	0.60 max.	2 nH - 23 nH	700 - 2100	Ceramic	High current
ICSIxxxxxxW2SHyT22	0402	1.19 max.	0.64 max.	0.66 max.	1 nH - 120 nH	30 - 1360	Ceramic	General
ICSIxxxxxxW3SHyT22	0603	1.80 max.	1.12 max.	1.02 max.	1,60 nH - 470 nH	100 - 700	Ceramic	General
ICSIxxxxxxW4SHyT22	0805	2.29 max.	1.73 max.	1.52 max.	3 nH - 1 µH	170 - 600	Ceramic	General
ICSIxxxxxxW5SHyT22	1008	2.92 max.	2.79 max.	2.03 max.	4,70 nH - 4,7 µH	260 - 1000	Ceramic	General
ICSIxxxxxxW6SHyT22	0603	1.80 max.	1.20 max.	1.00 max.	1 µH - 33 µH	120 - 700	Ferrite	General
ICSIxxxxxxW7SHyT22	0805	2.40 max.	1.65 max.	1.20 max.	470 nH - 100 µH	180 - 1500	Ferrite	General
ICSIxxxxxxW9SHyT22	1210	3.60 max.	2.90 max.	2.50 max.	470 nH - 470 µH	135 - 3200	Ferrite	General

Inductors

Wirewound Inductors: W-Series Overview shielded

- > Ceramic types with excellent Q and SRF characteristics for RF application
- > Ceramic types are widely used for communication system front-end circuits like GSM/3G/LTE/Wi-Fi/GPS
- > Ferrite types with Low DCR and high Q rating
- > Ferrite types are widely used as signal and noise suppressing inductors
- > Temperature ranges of -55°C to 125°C

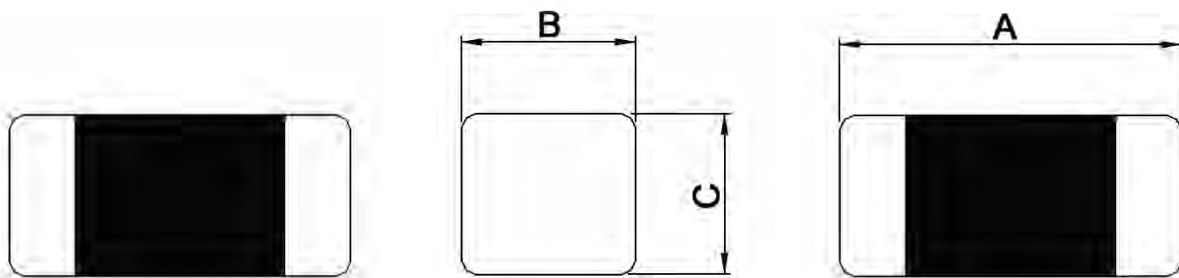


knitter-inductive Series	Inch Size	A(mm)	B(mm)	C(mm)	Inductance range	IDC range (mA)	Bobbin material	Purpose
ICSIxxxxxxW9SHyST22	1008	2.50 ±0.2	2.00 ±0.2	1.80 ±0.2	120 nH - 100 µH	60 - 550	Ferrite	Shielded
ICSIxxxxxxWASHyST22	1210	3.20 ±0.4	2.50 ±0.2	2.20 ±0.2	120 nH - 150 µH	40 - 450	Ferrite	General
ICSIxxxxxxWBSHyST22	1210	3.20 ±0.4	2.50 ±0.2	2.20 ±0.2	1 µH - 100 µH	75 - 770	Ferrite	High current
ICSIxxxxxxWCSHyST22	1812	4.50 ±0.3	3.20 ±0.2	3.20 ±0.2	100 nH - 1 mH	30 - 800	Ferrite	General
ICSIxxxxxxWDSHyST22	1812	4.50 ±0.3	3.20 ±0.2	3.20 ±0.2	1 µH - 680 µH	65 - 1050	Ferrite	High current

Inductors

Chip Inductors: M-Series Overview

- > Ceramic types with excellent Q and SRF characteristics for RF application
- > Ceramic types are widely used for communication system front-end circuits like GSM/3G/LTE/Wi-Fi/GPS
- > Ferrite types with good combination of high frequency noise suppression and capability of handling high current
- > Ferrite types are widely used as signal and noise suppressing inductors
- > Ferrite types are magnetically shielded to avoid cross talk
- > Temperature range from -55°C to 125°C

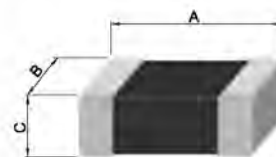


knitter-inductive Series	Inch Size	A(mm)	B(mm)	C(mm)	Inductance range	IDC range (mA)	Bobbin material	Purpose
ICSIxxxxxxM1SHyST22	0201	0.6±0.03	0.3±0.03	0.3±0.03	1 nH - 100 nH	60 mA - 470 mA	ceramic	high frequency
ICSIxxxxxxM2SHyST22	0402	1.0±0.10	0.5±0.10	0.5±0.10	1 nH - 270 nH	100 mA - 400 mA	ceramic	high frequency
ICSIxxxxxxM3SHyST22	0603	1.6±0.15	0.8±0.15	0.8±0.15	1 nH - 390 nH	100 mA - 600 mA	ceramic	high frequency
ICSIxxxxxxM4SHyST22	0603	1.6±0.20	0.8±0.20	0.8±0.20	47 nH - 12 µH	3 mA - 50 mA	ferrite	general
ICSIxxxxxxM5SHyST22	0805	2.0±0.20	1.2±0.20	0.9±0.20	47 nH - 1.8 µH	50 mA - 300 mA	ferrite	general
ICSIxxxxxxM6SHyST22	0805	2.0±0.20	1.2±0.20	1.2±0.20	2.2 µH - 10 µH	15 mA - 30 mA	ferrite	general
ICSIxxxxxxM7SHyST22	0603	1.6±0.15	0.8±0.15	0.95 max.	2.2 µH	750 mA	ferrite + ceramic	high current
ICSIxxxxxxM8SHyST22	0805	2.0±0.20	1.25±0.20	1.0±0.20	470 nH - 4.7 µH	700 mA - 1300 mA	ferrite + ceramic	high current
ICSIxxxxxxM9SHyST22	0806	2.0±0.20	1.6±0.20	1.0±0.20	470 nH - 4.7 µH	900 mA - 1600 mA	ferrite + ceramic	high current
ICSIxxxxxxMASHyST22	1008	2.5±0.20	2.0±0.20	1.0±0.20	470 nH - 6.8 µH	1100 mA - 1800 mA	ferrite + ceramic	high current

Inductors

Ferrite Beads: B-Series Overview

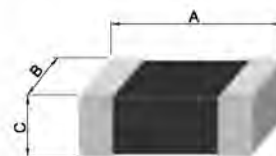
- > Standard Series
- > 0402 / 0603 / 0805 / 1206 / 1210 / 1806 / 1812
- > Different materials for different applications available
- > Many impedance values to cover all frequencies
- > Temperature range -55°C to +125°C



knitter-inductive Series	Inch Code	A (mm)	B (mm)	C (mm)	Impedance range (Ohm)	Rated current (mA)
ICSBxxxxxxB1SHyST22	0402	1.0±0.1	0.5±0.1	0.5±0.1	10 - 1500	50 - 500
ICSBxxxxxxB2SHyST22	0603	1.6±0.2	0.8±0.2	0.8±0.2	10 - 2700	50 - 500
ICSBxxxxxxB3SHyST22	0805	2.0±0.2	1.2±0.2	0.9±0.2	7 - 2700	200 - 600
ICSBxxxxxxB4SHyST22	1206	3.2±0.2	1.6±0.2	1.1±0.2	19 - 2000	100 - 600
ICSBxxxxxxB5SHyST22	1210	3.2±0.2	2.5±0.2	1.3±0.2	30 - 120	400
ICSBxxxxxxB6SHyST22	1806	4.5±0.2	1.6±0.2	1.6±0.2	60 - 180	300 - 500
ICSBxxxxxxB7SHyST22	1812	4.5±0.2	3.2±0.2	1.5±0.2	70 - 120	300

Ferrite Beads: I-Series Overview

- > High current Series
- > 0402 / 0603 / 0805 / 1206 / 1210 / 1806 / 1812
- > Different materials for different applications available
- > Many impedance values to cover all frequencies
- > Temperature range -55°C to +125°C



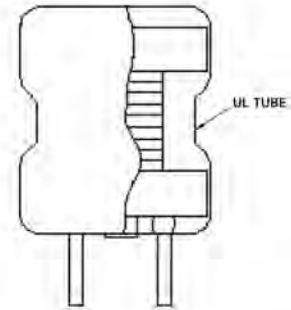
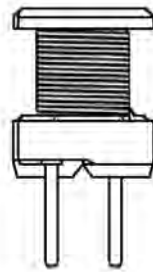
knitter-inductive Series	Inch Code	A (mm)	B (mm)	C (mm)	Impedance range (Ohm)	Rated current (mA)	Special
ICSBxxxxxxI1SHyST22	0402	1.0±0.1	0.5±0.1	0.5±0.1	10 - 120	1000 - 2500	High current
ICSBxxxxxxI2SHyST22	0603	1.6±0.2	0.8±0.2	0.8±0.2	5 - 600	1000 - 3000	High current
ICSBxxxxxxI2SHyST23	0603	1.6±0.15	0.8±0.15	0.8±0.15	120 - 220	1000 - 1500	AEC-Q200
ICSBxxxxxxI3SHyST22	0805	2.0±0.2	1.2±0.2	0.9±0.2	5 - 1000	1000 - 6000	High current
ICSBxxxxxxI4SHyST22	1206	3.2±0.2	1.6±0.2	1.1±0.2	10 - 1000	1000 - 6000	High current
ICSBxxxxxxI5SHyST22	1210	3.2±0.2	2.5±0.2	1.3±0.2	30 - 120	2500 - 3000	High current
ICSBxxxxxxI6SHyST22	1806	4.5±0.2	1.6±0.2	1.6±0.2	60 - 470	2000 - 6000	High current
ICSBxxxxxxI7SHyST22	1812	4.5±0.2	3.2±0.2	1.5±0.2	70 - 880	3000 - 6000	High current

Inductors

Tailor Made THT Inductors

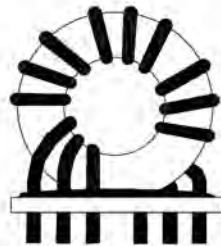
Axial and Radial Inductors

- > All core sizes available
- > Standard with UL sleeve
- > Optional with metal shielding housing
- > Pin length and distance on demand
- > Low-cost choke



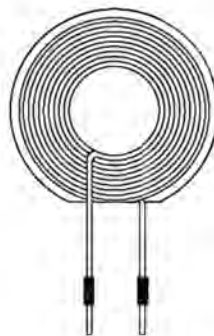
Toroidal Inductors

- > All toroidal core sizes available
- > Coated cores available
- > Optional with FR-4 PCB as base
- > Pin length and distance on demand
- > High efficiency
- > Low EMI



Wireless charging coils

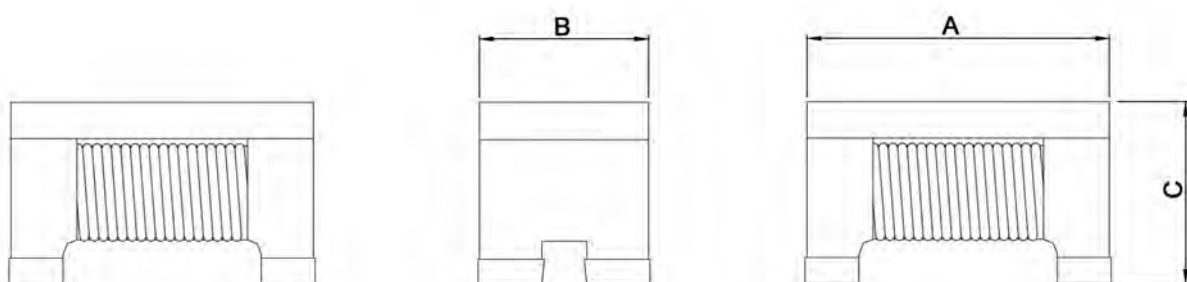
- > UEW and Litze wire
- > Ferrite and Magnetic sheet
- > Back paper for fast and easy assembly
- > Very cost efficient compared to our competitors!
- > For charging (5W/ 15W) and data transfer



Common Mode Chokes

Common Mode Choke SMD: L-Series Overview

- > Small size and high effective noise suppression
- > Low differential mode Impedance with high coupling factor
- > Ferrite cores for different operating frequencies (1/3.5/6/7.5 GHz)
- > Applications: CAN-BUS, ISDN, Ethernet System, HDMI, USB 3.0
- > Temperature ranges of -25 °C to +85 °C (minimum)
- > Bifilar winding

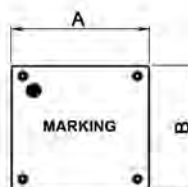


knitter-inductive Series	Inch Size	A(mm)	B(mm)	C(mm)	Impedance range	IDC range (mA)	Operating Frequency	Purpose
ICSCxxxxxxL1SHyT22	0504	1.2 ± 0.2	1.0 ± 0.2	1.1 max.	25 Ω - 330 Ω	200 - 300	1 / 7.5 GHz	General
ICSCxxxxxxL2SHyT22	0603	1.6 ± 0.1	0.8 ± 0.1	1.1 ± 0.1	60 Ω - 220 Ω	200 - 300	1 GHz	General
ICSCxxxxxxL3SHyT22	0805	2.0 ± 0.2	1.2 ± 0.2	1.2 ± 0.2	12 Ω - 900 Ω	200 - 420	1/3.5/6/7.5 GHz	General
ICSCxxxxxxL4SHyT22	1206	3.20 ± 0.2	1.6 ± 0.2	1.9 ± 0.2	67 Ω - 2200 Ω	200 - 400	1 GHz	General
ICSCxxxxxxL4SHyT23	1210	3.20 ± 0.2	2.5 ± 0.2	2.2 ± 0.2	1000 Ω	350	1 GHz	General
ICSCxxxxxxL5SHyT22	1812	4.50 ± 0.2	3.2 ± 0.2	2.8 ± 0.2	80 Ω - 1000 Ω	1000 - 3000	1 GHz	High current
ICSCxxxxxxL6SHyT22	1210	3.20 ± 0.2	2.5 ± 0.2	2.2 ± 0.2	80 Ω	70	1 GHz	General
ICSCxxxxxxL6SHyT23	1210	3.20 ± 0.2	2.5 ± 0.2	2.5 max.	11 μH - 200 μH	10 - 300	1 GHz	AEC-Q200
ICSCxxxxxxL7SHyT22	1812	4.50 ± 0.2	3.2 ± 0.2	2.8 ± 0.2	600 Ω - 5800 Ω	150 - 250	1 GHz	General

Common Mode Chokes

Common Mode Choke SMD: W-Series

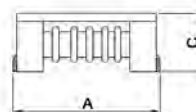
- > Small size and high effective common mode noise suppression
- > Low profile design
- > Rated voltage 80 V DC
- > Applications: CAN-BUS, Data and Signal lines, USB, Power Supplies, Sensor denoise
- > Temperature ranges of -25 °C to +105 °C (minimum)
- > Ring core Type, core material NiZn, MnZn



knitter-inductive Series	A(mm)	B(mm)	C(mm)	Inductance range	Impedance range	IDC range (mA)
ICSCxxxxxxW1SHyST23	6.5 max.	3.6 ± 0.3	2.0 max.	10 µH – 330 µH	300 Ω - 2000 Ω	300
ICSCxxxxxxW2SHyST22	9.2 ± 0.3	6.0 ± 0.3	5.0 ± 0.3	10 µH – 6500 µH	200 Ω - 5000 Ω	300 - 1600
ICSCxxxxxxW5SHyST23	10.0 ± 0.5	8.7 ± 0.5	6.5 max.	120 µH – 5000 µH	200 Ω - 5000 Ω	250 - 1400
ICSCxxxxxxW5SHAST12	9.5 max.	8.3 max.	5.0 ± 0.2	5 µH – 30 µH	500 Ω - 2200 Ω	1400 - 5000

Common Mode Choke SMD: C-Series

- > Small size and high effective common mode noise suppression
- > Low profile design but high current
- > Rated voltage 80 V DC / 125 V DC
- > Applications: EMI suppression and noise filtering of power lines
- > Temperature ranges of -25 °C to +125 °C
- > Separated winding, Core material NiZn

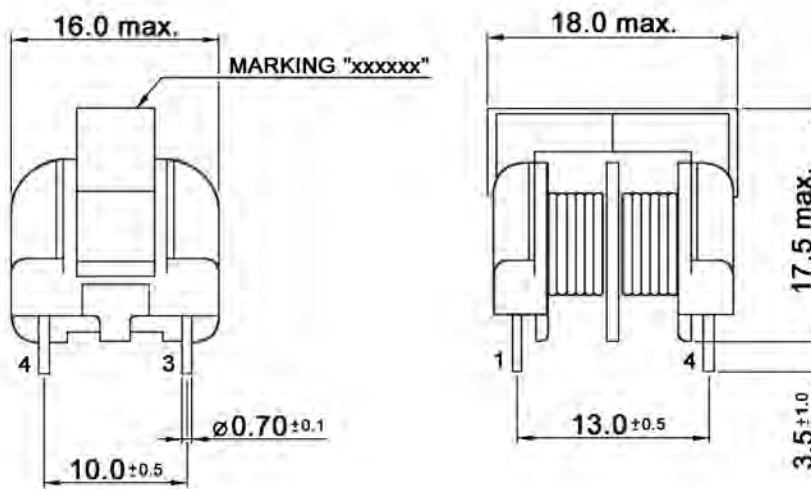


knitter-inductive Series	A(mm)	B(mm)	C(mm)	Impedance range	IDC range (mA)	IDC range (mA)
ICSCxxxxxxC1SHyT12	7.5 ± 0.5	6.0 ± 0.5	3.8 max.	100 Ω - 3000 Ω	900 - 9 000	300
ICSCxxxxxxC2SHyT12	9.5 ± 0.5	7.0 ± 0.5	4.8 max.	300 Ω - 2700 Ω	2 000 - 6 000	300 - 1600
ICSCxxxxxxC3SHyT12	12.5 ± 0.5	10.8 ± 0.5	6.5 max.	700 Ω - 2700 Ω	1 500 - 8 000	250 - 1400
ICSCxxxxxxC4SHyT12	15.0 ± 0.7	13.0 ± 0.5	6.5 max.	300 Ω - 700 Ω	10 000 - 13 000	1400 - 5000

Common Mode Chokes

Common Mode Choke THT: 20-21 Series

- > Standard and Sectional winding
- > Rated voltage: 300 V AC
- > Inductance values from 0.9 mH to 43 mH
- > Current rating from 0.3 to 2.0 Amps
- > EN60065 safety approval on demand
- > Low-cost Common Mode Choke
- > Operating temperature range -40°C to + 120°C
- > Core material MnZn



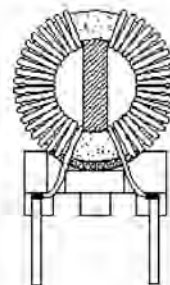
knitter-inductive Series	Type	Width (mm)	Length (mm)	Height (mm)	Inductance range	IDC range	DCR resistance
ICSCxxxxxx20LHA61	Standard winding	18.0 max.	16.0 max.	17.5 max.	1.5 – 43.0 mH	0.3 – 2.0 A	0.19 – 3.9 Ω
ICSCxxxxxx21LHA61	Sectional winding	18.0 max.	16.0 max.	17.5 max.	0.9 – 36.0 mH	0.3 – 2.0 A	0.13 – 4.1 Ω

Common Mode Chokes

Common Mode Choke Toroidal

High Current Toroidal Common Mode Chokes

- > From 16.0 x 7.5 x 17.5 mm (L*W*H)
- > To 47.0 x 23.5 x 43.0 mm (L*W*H)
- > Inductance from 0.014 mH to 39 mH
- > Current rating from 0.3 A to 35 A
- > For part numbers see our website!
- > Tailor made parts on demand!



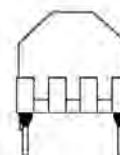
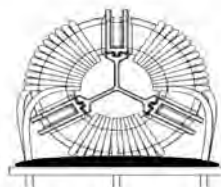
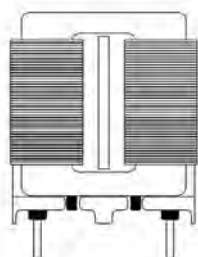
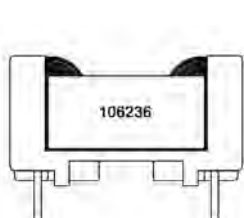
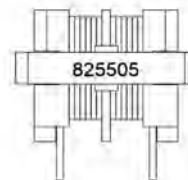
Nanocrystalline Toroidal Common Mode Chokes

- > From 15.0 x 8.5 x 16.0 mm (L*W*H)
- > To 48.0 x 27.0 x 46.0 mm (L*W*H)
- > Inductance values from 0.40 mH to 190 mH
- > Current rating from 0.9 A to 38 A
- > Smaller size due to nanocrystalline core
- > Tailor made parts on demand!
- > For part numbers see our website!



Tailor Made Common Mode Chokes

- > 1 and 3 phase toroidal CMCs toroidal
- > Toroidal core position in vertical/horizontal direction
- > THT Housed CMCs, optionally potted by epoxy, vertical and horizontal direction
- > Super flat CMCs (1 + 3 phase)
- > SMD housed CMCs, optionally potted by epoxy, vertical and horizontal direction
- > Flat wire CMCs



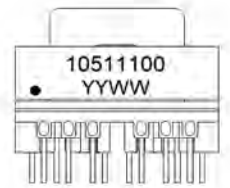
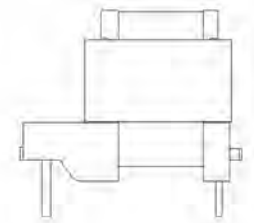
Transformers

Transformers THT

- > High frequency transformers (>1kHz)
- > Optionally flying leads & anti twist design
- > UL listed materials only
- > Basic/Reinforced insulation types
- > Comply with required creepage & clearance distances
- > Tailor made versions available

- > Supporting all common topologies:
 - > Flyback/ Forward/ Push-Pull/ etc.
 - > Buck/ Boost/ Buck-Boost/ etc.

- > Supporting all common bobbin/ core types & sizes:
 - > EE horizontal/vertical
 - > EFD/ ER/ ETD
 - > PQ/ RM
 - > etc.

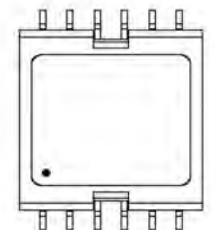
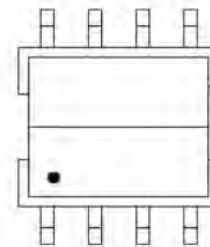
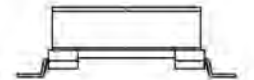


Transformers SMD

- > High frequency transformers (>1kHz)
- > UL listed materials only
- > Basic/Reinforced insulation types
- > Comply with required creepage & clearance distances
- > Tailor made versions available

- > Supporting all common topologies:
 - > Flyback/ Forward/ Push-Pull/ etc.
 - > Buck/ Boost/ Buck-Boost/ etc.

- > Supporting all common bobbin/ core types & sizes:
 - > EE horizontal/vertical
 - > ER/ EFD
 - > EP (shielded)
 - > Housed toroid types
 - > etc.



Transformer Design Form

Date	_____
Customer name	_____
Email	_____
Address	_____



The diagram shows a transformer with a central vertical core. On the left side, there is a primary winding labeled 'Primary'. On the right side, there are three secondary windings labeled 'Secondary', 'N1', 'N2', and 'N3' from top to bottom. Each winding has a terminal on the right side.

Application	_____						
Switching frequency	_____	Power	_____				
	No. of turns	Gauge	No. of turns	Gauge			
Number of inputs	1	_____	Number of outputs	1	_____		
	2	_____		2	_____		
	3	_____		3	_____		
			4	_____			
Isolation	<input type="checkbox"/> 500V	<input type="checkbox"/> 750V	<input type="checkbox"/> 1000V	<input type="checkbox"/> 1500V	<input type="checkbox"/> 2000V	<input type="checkbox"/> 3750V	<input type="checkbox"/> not specified

Sketch

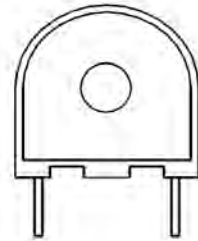
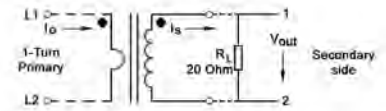
Typology	_____	Yearly demand	_____
Core form	_____	Production start	_____
Core size	_____		_____
Leaded / SMT	_____		_____
Sample quantity	_____		

Transformers

Transformer current sense

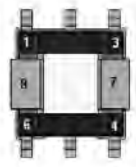
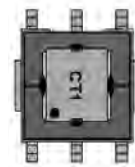
THT Types

- > Linking the Output and the pulse control circuit
- > Overload sensing
- > Output voltage depends on turn ratio
- > Secondary turns 1:25 – 1:1500
- > Max. operating frequency 20 – 50 kHz
- > Primary current up to 60A
- > Horizontal + vertical version

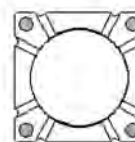


SMD Types

- > Assembled in SMD EE5 core
- > Overload sensing
- > Output voltage depends on turn ratio
- > Secondary turns 1:20 – 1:100
- > Max. operating frequency 50 kHz – 1 MHz
- > Primary current up to 10A
- > T/R packaging



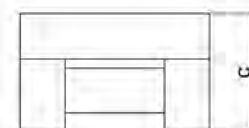
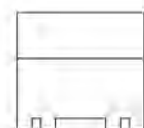
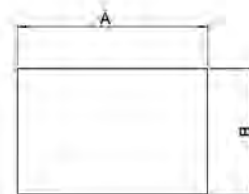
- > SMD toroidal design – lower inductance losses
- > Overload sensing
- > Output voltage depends on turn ratio
- > Secondary turns up to 1:125
- > Max. operating frequency 50 kHz – 1 MHz
- > Primary current up to 5 A
- > T/R packaging



Transformers

Single Line LAN Transformers

- > Small and compact size
- > Highest quality level due to fully automated production
- > Very high mechanical robustness
- > Reliable function and cost-efficient production
- > Matching CMC Series ICSCxxxxxL(1-6)SHyT22 available



knitter-inductive P/N	Type	Windings Pri:Sec	Primary Inductance	A (mm)	B (mm)	C (mm)	Comment
ICST20411002SHAT22	10 / 100 / 1000 Base-T	1:1	0,20 mH	4.60 ±0.2	3.40 ±0.2	2.90 ±0.2	Single line Ethernet
ICST15422000SHAT22	10 / 100 / 1000 Base-T	2:2	0,15 mH	3.20 ±0.2	3.20 ±0.2	2.90 max.	Single line Ethernet
ICST20422000SHAT22	10 / 100 / 1000 Base-T	2:2	0,20 mH	4.65 ±0.2	3.30 ±0.2	2.90 max.	Single line Ethernet
ICST20422001SHAT22	10 / 100 / 1000 Base-T	2:2	0,20 mH	4.65 ±0.2	3.30 ±0.2	2.90 max.	Single line Ethernet + PoE
ICST20411001SHAT22	1 Gbit	1:1	0,20 mH	4.60 ±0.2	3.40 ±0.2	2.90 max.	Single line Ethernet
ICST14422000SHAT22	2.5 Gbit	2:2	0,14 mH	5.28 ±0.3	3.45 ±0.3	3.40 ±0.3	Single line Ethernet
ICST16422000SHAT22	10 Gbit	2:2	0,16 mH	5.28 ±0.3	3.45 ±0.3	3.40 ±0.3	Single line Ethernet

Standard and customized inductive components

Contact

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sales@technolasa.com

technoLASAThe logo for technoLASA features the word "techno" in a lowercase, orange, sans-serif font, followed by "LASA" in a blue, uppercase, sans-serif font. A small, stylized orange and blue graphic element is positioned to the right of the "A" in "LASA".

www.knitter-inductive.com