IPSD Series Shielded Power Inductors

Features

- Low profile power inductors
- Designed for operating temperature -40°C to +85°C
- Available in tape and reel packaging for auto pick and place insertion
- Available in wide range of inductance values
- Available in wide range of current ratings to satisfy various design requirements

Applications

- DC/DC converters
- LCD TV, set top box, digital video recorders
- Graphic cards
- RF and wireless communication products

Isometric Drawing

Figure 1

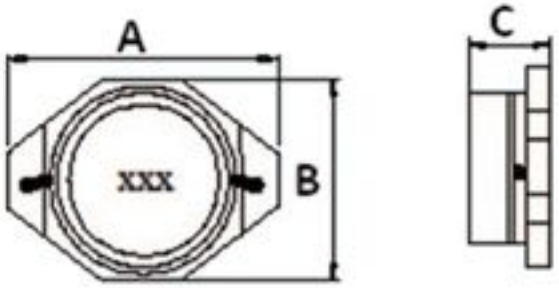
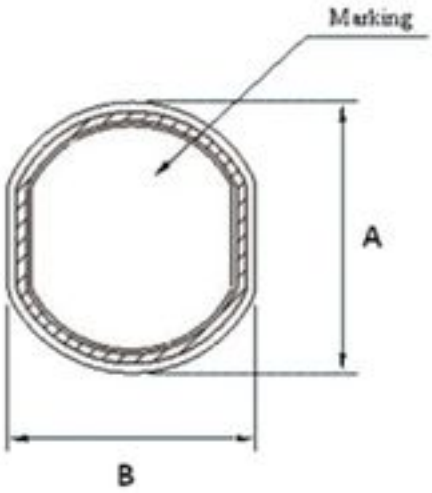


Figure 2



Item #	Inductance (µH)	MAX. DCR (OHMS)	Rated Current (A) Max	Dimension A	Dimension B	Dimension C	Figure Number
IPSD63100M-10	10	0.14	1	6.2 ± 0.4 mm	5.6 ± 0.4 mm	3.2 ± 0.5 mm	2
IPSD63120M-10	12	0.16	0.94	6.2 ± 0.4 mm	5.6 ± 0.4 mm	3.2 ± 0.5 mm	2
IPSD63150M-10	15	0.18	0.86	6.2 ± 0.4 mm	5.6 ± 0.4 mm	3.2 ± 0.5 mm	2
IPSD63180M-10	18	0.25	0.78	6.2 ± 0.4 mm	5.6 ± 0.4 mm	3.2 ± 0.5 mm	2
IPSD63220M-10	22	0.32	0.76	6.2 ± 0.4 mm	5.6 ± 0.4 mm	3.2 ± 0.5 mm	2
IPSD63270M-10	27	0.36	0.64	6.2 ± 0.4 mm	5.6 ± 0.4 mm	3.2 ± 0.5 mm	2
IPSD63330M-10	33	0.41	0.61	6.2 ± 0.4 mm	5.6 ± 0.4 mm	3.2 ± 0.5 mm	2
IPSD63390M-10	39	0.47	0.53	6.2 ± 0.4 mm	5.6 ± 0.4 mm	3.2 ± 0.5 mm	2
IPSD63470M-10	47	0.51	0.5	6.2 ± 0.4 mm	5.6 ± 0.4 mm	3.2 ± 0.5 mm	2
IPSD63560M-10	56	0.72	0.46	6.2 ± 0.4 mm	5.6 ± 0.4 mm	3.2 ± 0.5 mm	2

IPSD63680M-10	68	0.82	0.42	6.2 ± 0.4 mm	5.6 ± 0.4 mm	3.2 ± 0.5 mm	2
IPSD63820M-10	82	0.89	0.38	6.2 ± 0.4 mm	5.6 ± 0.4 mm	3.2 ± 0.5 mm	2
IPSD63101M-10	100	0.97	0.33	6.2 ± 0.4 mm	5.6 ± 0.4 mm	3.2 ± 0.5 mm	2
IPSD74100M-10	10	0.07	1.65	7.8 ± 0.4 mm	7.0 ± 0.4 mm	4.5 ± 0.5 mm	2
IPSD74150M-10	15	0.08	1.39	7.8 ± 0.4 mm	7.0 ± 0.4 mm	4.5 ± 0.5 mm	2
IPSD74180M-10	18	0.1	1.29	7.8 ± 0.4 mm	7.0 ± 0.4 mm	4.5 ± 0.5 mm	2
IPSD74220M-10	22	0.13	1.12	7.8 ± 0.4 mm	7.0 ± 0.4 mm	4.5 ± 0.5 mm	2
IPSD74330M-10	33	0.18	0.97	7.8 ± 0.4 mm	7.0 ± 0.4 mm	4.5 ± 0.5 mm	2
IPSD74390M-10	39	0.18	0.91	7.8 ± 0.4 mm	7.0 ± 0.4 mm	4.5 ± 0.5 mm	2
IPSD74470M-10	47	0.27	0.8	7.8 ± 0.4 mm	7.0 ± 0.4 mm	4.5 ± 0.5 mm	2
IPSD74560M-10	56	0.29	0.76	7.8 ± 0.4 mm	7.0 ± 0.4 mm	4.5 ± 0.5 mm	2
IPSD74680M-10	68	0.33	0.68	7.8 ± 0.4 mm	7.0 ± 0.4 mm	4.5 ± 0.5 mm	2
IPSD74820M-10	82	0.43	0.62	7.8 ± 0.4 mm	7.0 ± 0.4 mm	4.5 ± 0.5 mm	2
IPSD74101M-10	100	0.49	0.55	7.8 ± 0.4 mm	7.0 ± 0.4 mm	4.5 ± 0.5 mm	2
IPSD74151M-10	150	0.94	0.44	7.8 ± 0.4 mm	7.0 ± 0.4 mm	4.5 ± 0.5 mm	2

IPSF Series Shielded Power Inductors

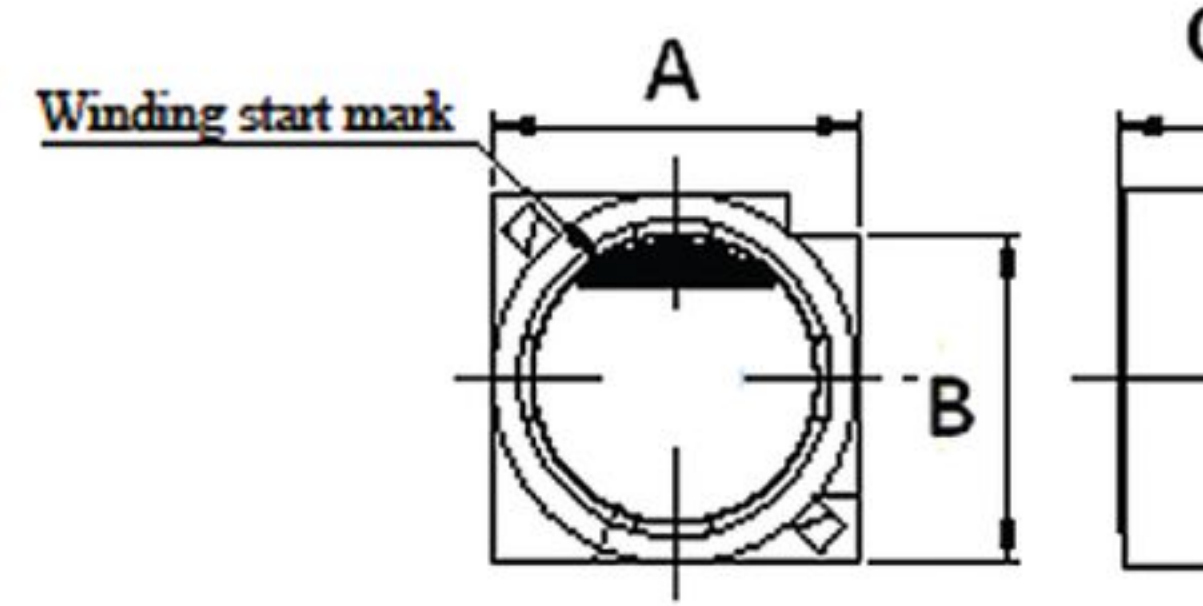
Features

- Packed in tape and reel for auto pick and place insertion
- Available in wide range of inductance values
- Available in wide range of current ratings
- Excellent terminal strength
- Excellent soldering avility and heat resistance
- Designed for operating temperature - 20°C to +85°C

Applications

- Personal computers
- LCD TV
- DC/DC converters
- Power supply for VCR, OA equipment

Isometric Drawing



Item #	Inductance (µH)	MAX. DCR (OHMS)	Rated Current (A) Max	Dimension A	Dimension B	Dimension C
IPSF6254R7M-10	4.7	0.031	1.5	6 ± 0.2 mm	6 ± 0.2 mm	2.5 ± 0.2 mm
IPSF6256R8M-10	6.8	0.044	1.3	6 ± 0.2 mm	6 ± 0.2 mm	2.5 ± 0.2 mm
IPSF625100M-10	10	0.057	1	6 ± 0.2 mm	6 ± 0.2 mm	2.5 ± 0.2 mm
IPSF625150M-10	15	0.085	0.88	6 ± 0.2 mm	6 ± 0.2 mm	2.5 ± 0.2 mm
IPSF625220M-10	22	0.122	0.73	6 ± 0.2 mm	6 ± 0.2 mm	2.5 ± 0.2 mm
IPSF625330M-10	33	0.18	0.59	6 ± 0.2 mm	6 ± 0.2 mm	2.5 ± 0.2 mm
IPSF625470M-10	47	0.24	0.48	6 ± 0.2 mm	6 ± 0.2 mm	2.5 ± 0.2 mm
IPSF625680M-10	68	0.37	0.42	6 ± 0.2 mm	6 ± 0.2 mm	2.5 ± 0.2 mm
IPSF625101M-10	100	0.5	0.33	6 ± 0.2 mm	6 ± 0.2 mm	2.5 ± 0.2 mm
IPSF63560M-10	56	0.72	0.46	6 ± 0.2 mm	6 ± 0.2 mm	2.5 ± 0.2 mm

IPSF63680M-10	68	0.82	0.42	6 ± 0.2 mm	6 ± 0.2 mm	2.5 ± 0.2 mm
IPSF63820M-10	82	0.89	0.38	6 ± 0.2 mm	6 ± 0.2 mm	2.5 ± 0.2 mm
IPSF63101M-10	100	0.97	0.33	6 ± 0.2 mm	6 ± 0.2 mm	2.5 ± 0.2 mm
IPSF6284R7M-10	4.7	0.0284	1.6	6 ± 0.2 mm	6 ± 0.2 mm	2.8 ± 0.2 mm
IPSF6286R8M-10	6.8	0.0354	1.5	6 ± 0.2 mm	6 ± 0.2 mm	2.8 ± 0.2 mm
IPSF628100M-10	10	0.0532	1.3	6 ± 0.2 mm	6 ± 0.2 mm	2.8 ± 0.2 mm
IPSF628150M-10	15	0.0745	1	6 ± 0.2 mm	6 ± 0.2 mm	2.8 ± 0.2 mm
IPSF628220M-10	22	0.104	0.77	6 ± 0.2 mm	6 ± 0.2 mm	2.8 ± 0.2 mm
IPSF628330M-10	33	0.148	0.69	6 ± 0.2 mm	6 ± 0.2 mm	2.8 ± 0.2 mm
IPSF628470M-10	47	0.21	0.59	6 ± 0.2 mm	6 ± 0.2 mm	2.8 ± 0.2 mm
IPSF628680M-10	68	0.29	0.5	6 ± 0.2 mm	6 ± 0.2 mm	2.8 ± 0.2 mm
IPSF628101M-10	100	0.43	0.42	6 ± 0.2 mm	6 ± 0.2 mm	2.8 ± 0.2 mm
IPSF7283R3M-10	3.3	0.037	1.6	7 ± 0.2 mm	7 ± 0.2 mm	2.8 ± 0.2 mm
IPSF7284R7M-10	4.7	0.045	1.5	7 ± 0.2 mm	7 ± 0.2 mm	2.8 ± 0.2 mm
IPSF7286R8M-10	6.8	0.059	1.3	7 ± 0.2 mm	7 ± 0.2 mm	2.8 ± 0.2 mm

IPSH Series Shielded Power Inductors

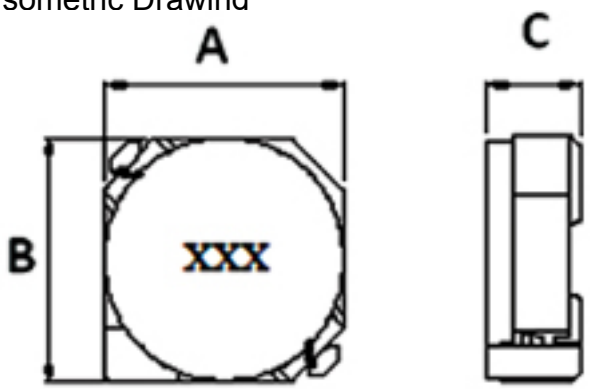
Features

- Low profile power inductors
- Designed for operating temperature -40°C to +85°C
- Available in tape and reel packaging for auto pick and place insertion
- Available in wide range of inductance values
- Available in wide range of current ratings to satisfy various design requirements

Applications

- DC/DC converters
- LCD TV, set top box, digital video recorders
- Graphic cards
- RF and wireless communication products

Isometric Drawing



Item #	Inductance (µH)	MAX. DCR (OHMS)	Rated Current (A) Max	Dimension A	Dimension B	Dimension C
IPSH2D182R2N-10	2.2	0.041	0.85	3.2 mm	3.2 mm	2 mm
IPSH2D183R3N-10	3.3	0.054	0.75	3.2 mm	3.2 mm	2 mm
IPSH2D184R7N-10	4.7	0.078	0.63	3.2 mm	3.2 mm	2 mm
IPSH2D186R8N-10	6.8	0.106	0.52	3.2 mm	3.2 mm	2 mm
IPSH2D18100N-10	10	0.18	0.43	3.2 mm	3.2 mm	2 mm
IPSH2D18150N-10	15	0.22	0.35	3.2 mm	3.2 mm	2 mm
IPSH2D18220N-10	22	0.32	0.3	3.2 mm	3.2 mm	2 mm
IPSH2D18330N-10	33	0.46	0.24	3.2 mm	3.2 mm	2 mm
IPSH2D18470N-10	47	0.66	0.2	3.2 mm	3.2 mm	2 mm
IPSH2D18680M-10	68	1.295	0.18	3.2 mm	3.2 mm	2 mm
IPSH2D18820M-10	82	1.437	0.15	3.2 mm	3.2 mm	2 mm
IPSH3D16R26N-10	0.26	0.028	3.6	4 mm	4 mm	1.8 mm
IPSH3D16R47N-10	0.47	0.035	2.75	4 mm	4 mm	1.8 mm
IPSH3D160R7N-10	0.7	0.043	2.25	4 mm	4 mm	1.8 mm
IPSH3D161R1N-10	1.1	0.05	1.9	4 mm	4 mm	1.8 mm
IPSH3D161R5N-10	1.5	0.052	1.55	4 mm	4 mm	1.8 mm
IPSH3D162R2N-10	2.2	0.072	1.2	4 mm	4 mm	1.8 mm
IPSH3D163R3N-10	3.3	0.085	1.1	4 mm	4 mm	1.8 mm

IPSH3D164R7N-10	4.7	0.105	0.9	4 mm	4 mm	1.8 mm
IPSH3D165R0N-10	5	0.11	0.88	4 mm	4 mm	1.8 mm
IPSH3D165R6N-10	5.6	0.146	0.8	4 mm	4 mm	1.8 mm
IPSH3D166R8N-10	6.8	0.17	0.73	4 mm	4 mm	1.8 mm
IPSH3D16100N-10	10	0.21	0.55	4 mm	4 mm	1.8 mm
IPSH3D16150N-10	15	0.295	0.45	4 mm	4 mm	1.8 mm
IPSH3D16220N-10	22	0.43	0.4	4 mm	4 mm	1.8 mm

IPSR Series Shielded Power Inductors

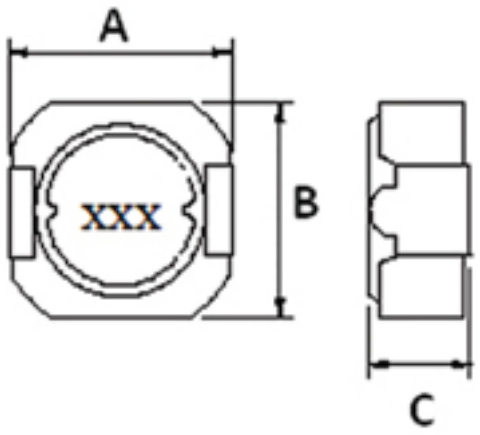
Features

- Low profile power inductors
- Available in tape and reel
- Designed for pick and place machine
- Designed to operate from -40C to +85C
- Available in wide range of inductance values
- Available in wide range of current ratings

Applications

- Power supply circuits
- DC/DC converters for LCD TV, set top box, digital video recorders

Isometric Drawing



Item #	Inductance (µH)	MAX. DCR (OHMS)	Rated Current (A) Max	Dimension A	Dimension B	Dimension C
IPSR62L1R0M-10	1	0.017	3.5	6.3 mm	6.2 mm	2 mm
IPSR62L1R5M-10	1.5	0.021	2.94	6.3 mm	6.2 mm	2 mm
IPSR62L2R0M-10	2	0.029	2.47	6.3 mm	6.2 mm	2 mm
IPSR62L3R3M-10	3.3	0.047	1.99	6.3 mm	6.2 mm	2 mm
IPSR62L4R7M-10	4.7	0.066	1.59	6.3 mm	6.2 mm	2 mm
IPSR62L6R2M-10	6.2	0.074	1.49	6.3 mm	6.2 mm	2 mm
IPSR62L8R2M-10	8.2	0.102	1.25	6.3 mm	6.2 mm	2 mm
IPSR62L100M-10	10	0.118	1.22	6.3 mm	6.2 mm	2 mm
IPSR62L120M-10	12	0.154	0.99	6.3 mm	6.2 mm	2 mm
IPSR62L150M-10	15	0.179	0.94	6.3 mm	6.2 mm	2 mm
IPSR62L180M-10	18	0.207	0.83	6.3 mm	6.2 mm	2 mm
IPSR62L220M-10	22	0.253	0.8	6.3 mm	6.2 mm	2 mm
IPSR62L270M-10	27	0.331	0.65	6.3 mm	6.2 mm	2 mm
IPSR62L330M-10	33	0.368	0.63	6.3 mm	6.2 mm	2 mm
IPSR62L390M-10	39	0.473	0.55	6.3 mm	6.2 mm	2 mm
IPSR62L470M-10	47	0.542	0.5	6.3 mm	6.2 mm	2 mm
IPSR62C1R0M-10	1	0.014	3.48	6.3 mm	6.2 mm	2.5 mm

IPSR62C1R5M-10	1.5	0.017	2.83	6.3 mm	6.2 mm	2.5 mm
IPSR62C2R0M-10	2	0.021	2.44	6.3 mm	6.2 mm	2.5 mm
IPSR62C3R3M-10	3.3	0.029	1.89	6.3 mm	6.2 mm	2.5 mm
IPSR62C4R3M-10	4.3	0.037	1.65	6.3 mm	6.2 mm	2.5 mm
IPSR62C6R2M-10	6.2	0.052	1.37	6.3 mm	6.2 mm	2.5 mm
IPSR62C100M-10	10	0.077	1.07	6.3 mm	6.2 mm	2.5 mm
IPSR62C120M-10	12	0.09	0.97	6.3 mm	6.2 mm	2.5 mm
IPSR62C150M-10	15	0.105	0.87	6.3 mm	6.2 mm	2.5 mm

IPUD Series Unshielded Power Inductors

Features

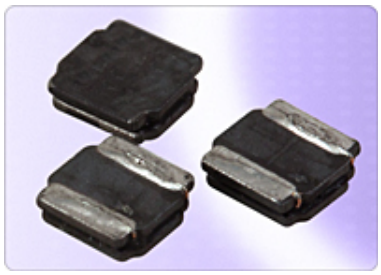
- Low profile power inductors
- Designed for operating temperature -40°C to +85°C
- Available in tape and reel packaging for auto pick and place insertion
- Available in wide range of inductance values
- Available in wide range of current ratings to satisfy various design requirements

Applications

- DC/DC converters
- LCD TV, set top box, digital video recorders
- Graphic cards
- RF and wireless communication products

Isometric Drawing

Item #	Inductance (µH)	MAX. DCR (OHMS)	Rated Current (A) Max	Dimension A	Dimension B	Dimension C	Figure Number
IPUD32100M-10	10	0.23	0.76	3.5 ± 0.3 mm	3.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD32120M-10	12	0.27	0.69	3.5 ± 0.3 mm	3.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD32150M-10	15	0.31	0.64	3.5 ± 0.3 mm	3.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD32180M-10	18	0.41	0.53	3.5 ± 0.3 mm	3.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD32220M-10	22	0.47	0.5	3.5 ± 0.3 mm	3.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD32270M-10	27	0.66	0.41	3.5 ± 0.3 mm	3.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD32330M-10	33	0.76	0.38	3.5 ± 0.3 mm	3.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD32390M-10	39	0.85	0.36	3.5 ± 0.3 mm	3.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD32470M-10	47	0.97	0.33	3.5 ± 0.3 mm	3.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD32560M-10	56	1.25	0.29	3.5 ± 0.3 mm	3.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD32680M-10	68	1.45	0.28	3.5 ± 0.3 mm	3.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD32820M-10	82	1.85	0.24	3.5 ± 0.3 mm	3.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD32101M-10	100	2.2	0.22	3.5 ± 0.3 mm	3.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD32121M-10	120	2.9	0.19	3.5 ± 0.3 mm	3.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD32151M-10	150	3.4	0.17	3.5 ± 0.3 mm	3.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD32181M-10	180	3.9	0.17	3.5 ± 0.3 mm	3.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD32221M-10	220	4.5	0.16	3.5 ± 0.3 mm	3.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD32271M-10	270	6	0.14	3.5 ± 0.3 mm	3.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD32331M-10	330	7	0.13	3.5 ± 0.3 mm	3.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD32391M-10	390	7.8	0.12	3.5 ± 0.3 mm	3.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD421R0M-10	1	0.043	2.7	4.5 ± 0.3 mm	4.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD421R4M-10	1.4	0.048	2.55	4.5 ± 0.3 mm	4.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD421R8M-10	1.8	0.052	2.2	4.5 ± 0.3 mm	4.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD422R2M-10	2.2	0.058	2	4.5 ± 0.3 mm	4.0 ± 0.3 mm	2.1 ± 0.3 mm	1
IPUD422R7M-10	2.7	0.065	1.8	4.5 ± 0.3 mm	4.0 ± 0.3 mm	2.1 ± 0.3 mm	1



TYS Series

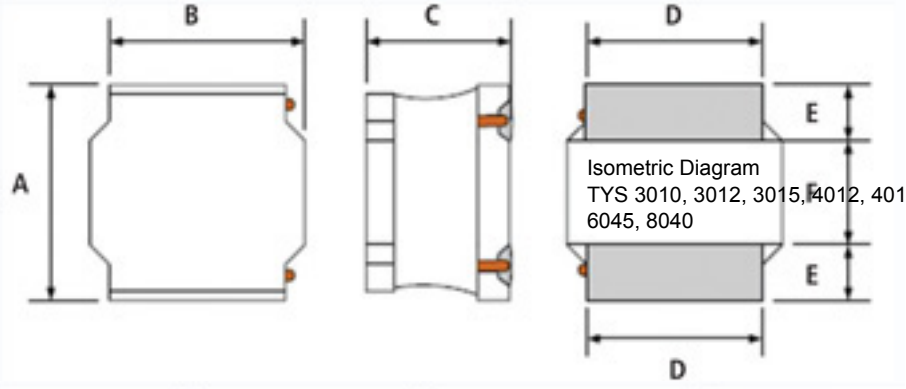
Feature

- Magnetic shielded structure
- Low DCR and high efficiency
- Low profile and small size
- High reliability

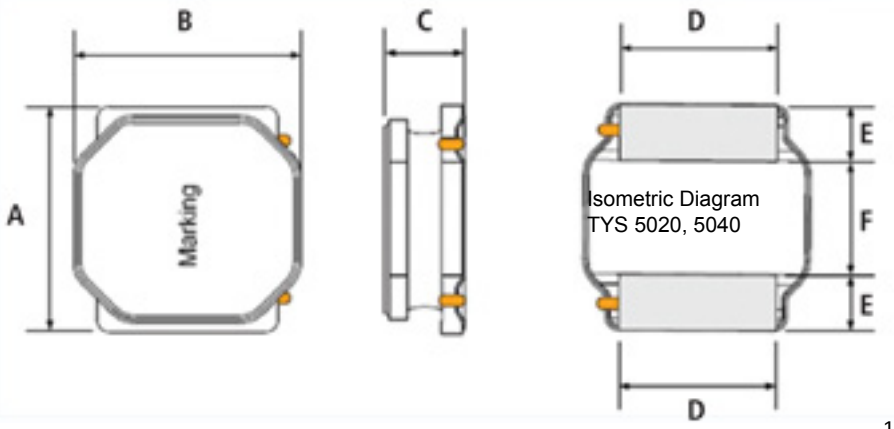
Applications

- Power supply and noise filter circuits
- Consumer devices like set top box, wireless router, LCD TV and DVD etc
- Portable electronics such as mobile phone, GPS, digital camera etc
- Tablet, notebook, desktop PC etc
- LED lighting
- Automotive

Shapes & Dimensions



Isometric Diagram
TYS 3010, 3012, 3015, 4012, 4018, 4020, 4030, 6020, 6028, 6045, 8040



Isometric Diagram
TYS 5020, 5040

Item #	Inductance (µH)	RDC ±30% ohm	Saturation Current (A) Max	RMS current (A)	Dimension A	Dimension B	Dimension C
TYS252010L100M-10	10 ± 20%	1.092	0.65	0.50	2.5±0.1 mm	2.0±0.1 mm	1.0 Max mm
TYS252010L1R0N-10	1.0 ± 30%	0.108	1.80	1.65	2.5±0.1 mm	2.0±0.1 mm	1.0 Max mm
TYS252010L1R5N-10	1.5 ± 30%	1.82	1.80	1.30	2.5±0.1 mm	2.0±0.1 mm	1.0 Max mm
TYS252010L2R2N-10	2.2 ± 30%	0.209	1.2	1.20	2.5±0.1 mm	2.0±0.1 mm	1.0 Max mm
TYS252010L3R3M-10	3.3 ± 20%	0.328	1.05	0.9	2.5±0.1 mm	2.0±0.1 mm	1.0 Max mm
TYS252010L4R7M-10	4.7 ± 20%	0.563	0.95	0.7	2.5±0.1 mm	2.0±0.1 mm	1.0 Max mm
TYS252010L6R8M-10	6.8 ± 20%	0.896	0.78	0.59	2.5±0.1 mm	2.0±0.1 mm	1.0 Max mm
TYS252010LR47N-10	0.47 ± 30%	0.056	2.50	2.35	2.5±0.1 mm	2.0±0.1 mm	1.0 Max mm
TYS252010LR68N-10	0.68 ± 30%	0.074	2.2	2.00	2.5±0.1 mm	2.0±0.1 mm	1.0 Max mm
TYS252012L100M-10	10 ± 20%	0.637	0.79	0.62	2.5±0.1 mm	2.0±0.1 mm	1.2 Max mm
TYS252012L150M-10	15 ± 20%	1.469	0.68	0.42	2.5±0.1 mm	2.0±0.1 mm	1.2 Max mm
TYS252012L1R0N-10	1.0 ± 30%	0.083	2.59	1.93	2.5±0.1 mm	2.0±0.1 mm	1.2 Max mm
TYS252012L1R5M-10	1.5 ± 20%	0.136	2.24	1.4	2.5±0.1 mm	2.0±0.1 mm	1.2 Max mm
TYS252012L220M-10	22 ± 20%	1.824	0.53	0.38	2.5±0.1 mm	2.0±0.1 mm	1.2 Max mm
TYS252012L2R2M-10	2.2 ± 20%	0.199	1.85	1.15	2.5±0.1 mm	2.0±0.1 mm	1.2 Max mm
TYS252012L3R3M-10	3.3 ± 20%	0.244	1.61	1.04	2.5±0.1 mm	2.0±0.1 mm	1.2 Max mm
TYS252012L4R7M-10	4.7 ± 20%	0.348	1.12	0.84	2.5±0.1 mm	2.0±0.1 mm	1.2 Max mm
TYS252012L6R8M-10	6.8 ± 20%	0.536	0.98	0.69	2.5±0.1 mm	2.0±0.1 mm	1.2 Max mm
TYS252012LR47N-10	0.47 ± 30%	0.056	3.82	2.15	2.5±0.1 mm	2.0±0.1 mm	1.2 Max mm
TYS3010100M-10	10 ±20%	0.400	0.55	0.58	3.0 mm	3.0 mm	1.0 mm
TYS3010150M-10	15 ±20%	0.610	0.42	0.47	3.0 mm	3.0 mm	1.0 mm
TYS30101R0N-10	1.0 ±30%	0.065	1.40	1.45	3.0 mm	3.0 mm	1.0 mm
TYS30101R5N-10	1.5 ±30%	0.080	1.27	1.30	3.0 mm	3.0 mm	1.0 mm
TYS3010220M-10	22 ±20%	0.930	0.35	0.38	3.0 mm	3.0 mm	1.0 mm
TYS30102R2N-10	2.2 ±30%	0.110	1.15	1.09	3.0 mm	3.0 mm	1.0 mm