

COMMON MODE LINE CHOKES

LF3530,LF3535 SERIES

FEATURES:

- 0.25A to 4A ratings,low temperature rise
- 1.2mH to 82mH dual chokes
- Excellent Mechanical Strength
- High Reliability and variant PCB–mount housing
- Low resistance and temperature rise

OPTIONS:

- Bulk packaging is standard
- Custom design available

COMMON APPLICATIONS:

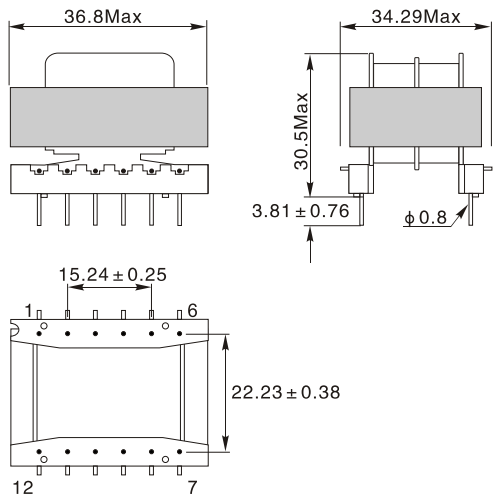
- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Computer Peripheral Equipment
  It accord with the standards of FCC VCCI CISPR FTZ,etc, eliminating of electromagnetic noise of power and signal circuit.

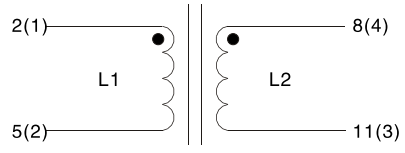
ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) (mH) Min 10KHz,0.1V	SRF (KHz)Min	IDC (A)Max	DCR (Ω)Max
LF35XX–823Y	82.0	65	0.25	3.1
LF35XX–343Y	34.0	100	0.75	1.3
LF35XX–253Y	25.3	129	1.0	0.855
LF35XX–153Y	15.8	170	1.25	0.54
LF35XX–822Y	8.20	206	1.5	0.295
LF35XX–652Y	6.55	230	2.0	0.215
LF35XX–342Y	3.45	309	2.5	0.12
LF35XX–172Y	1.75	420	3.0	0.07
LF35XX–122Y	1.20	560	4.0	0.045

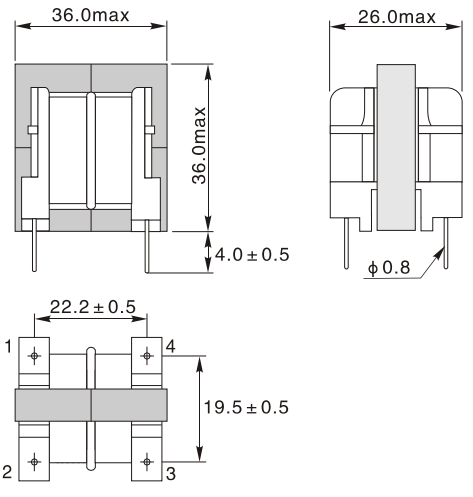
PHYSICAL CHARACTERISTICS

LF3530





LF3535

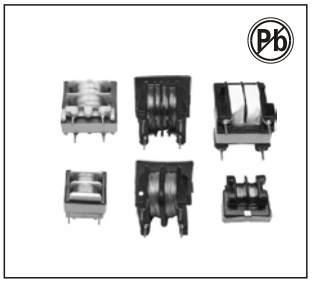


NOTES:

1. Inductance is minimum per winding, tested at 0.1 Vrms, 10 kHz.
2. 3750 Vrms, one minute isolation between windings.
3. Ambient temperature range –0℃ to +85℃.
4. Electrical specifications at 25℃.
5. All specifications subject to change without notice.

THROUGH–HOLE COMMON MODE CHOKES

LF1717 SERIES



FEATURES:

- 0.9A to 14.5A ratings,low temperature rise
- 1.0mH to 43mH dual chokes
- Excellent Mechanical Strength
- 100KHz to 3MHz common mode resonance
- High Reliability and variant PCB–mount housing
- Low resistance and temperature rise

APPLICATIONS:

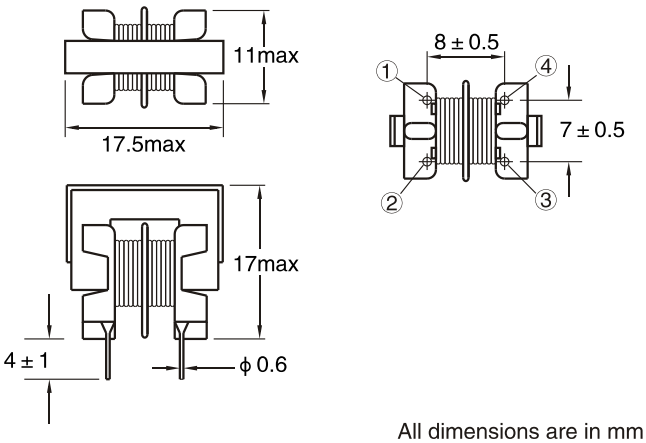
- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Computer Peripheral Equipment It accord with the standards of FCC VCCI CISPR FTZ,etc, eliminating of electromagnetic noise of power and signal circuit.

STANDARD SPECIFICATIONS

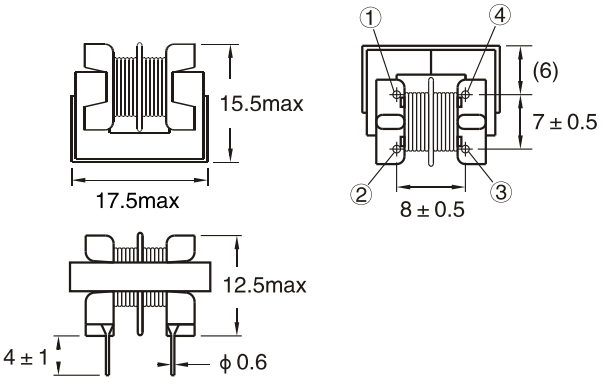
Part Number	Inductance 1KHZ,1V μ H Min	Rdc Ω Max.	Turns Ratio ± 0.2%	Hi–Pot Isolation Voltage
LF1717V–102Y	1000	0.9	1 : 1	2500V
LF1717V–332Y	3300	1.2	1 : 1	2500V
LF1717V–702Y	7000	2.5	1 : 1	2500V
LF1717V–333Y	33000	13.5	1 : 1	2500V
LF1717H–202Y	2200	1.0	1 : 1	2500V
LF1717H–502Y	5000	1.6	1 : 1	2500V
LF1717H–143Y	14000	5.5	1 : 1	2500V
LF1717H–433Y	43000	14.5	1 : 1	2500V

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

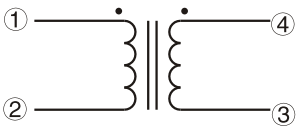
LF1717V



LF1717H



All dimensions are in mm



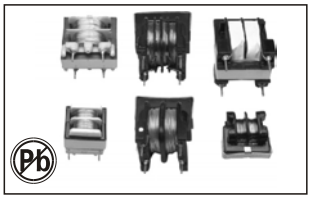
- Max operating voltage:250V at 40℃
- IDC Max: rating AC/DC current A @40℃
- Hi–Pot 2500Vac winding to winding 3S.
- Inductance Testing: 10KHz 0.1V HP4284A
- RDC:QuadTech 1880 Milliohmmeter
- Surge current Max 10ms: 20X IDC
- Soldering methods:Wave,Reflow
- Operating Temperature:0℃ to 85℃
- Storage Temperature:–25℃ to 85℃

Note:All specifications subject to change without notice.

SHINHOM ELECTRONICS ENTERPRISE CO.,LTD. No.100YanTa Northern Road Zip:710054 Tel:0086–29–87851838 Fax:0086–29–87851840

THROUGH–HOLE COMMON MODE CHOKES

LF1922 SERIES



FEATURES:

- 0.3A to 5A ratings,low temperature rise
- 1.0mH to 10mH dual chokes
- Excellent Mechanical Strength
- 100KHz to 3MHz common mode resonance
- High Reliability and variant PCB–mount housing
- Low resistance and temperature rise

OPTIONS:

- Bulk packaging is standard
- Custom design available

COMMON APPLICATIONS:

- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Computer Peripheral Equipment

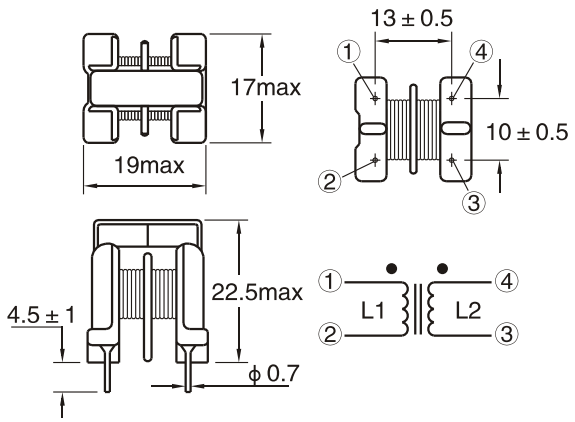
It accord with the standards of FCC VCCI CISPR FTZ,etc, eliminating of electromagnetic noise of power and signal circuit.

ELECTRICAL CHARACTERISTICS:

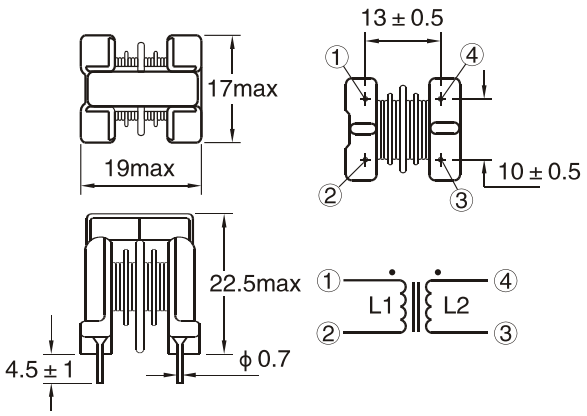
Part Number	Inductance L mH	Lk (uH)Max	DCR Ω Max	IDC Max A
LF1922–752Y	7.5	100	2.0	0.4
LF1922–502Y	5.0	200	2.0	0.3
LF1922–302Y	3.0	150	1.2	0.5
LF1922–202Y	2.0	100	0.4	1.0
LF1922–102Y	1.0	100	0.4	1.0
LF1922–801Y	0.8	50	0.2	1.5
LF1922–601Y	0.6	50	0.12	2.0
LF1922–103Y	10.0	300	2.0	0.3
LF1922–502Y	5.0	200	1.2	0.5
LF1922–302Y	3.0	60	0.5	0.9
LF1922–202Y	2.0	100	0.4	1.0
LF1922–102Y	1.0	100	0.4	1.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

2 SECTION



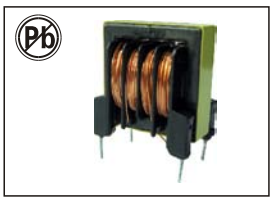
4 SECTION



- Max operating voltage:250V at 40℃
- IDC Max: rating AC/DC current A @40℃
- Hi–Pot 2500V AC winding to winding 3S.
- Insulation resistance 100MΩ Min DC 500V
- Temperature Rise Max:40℃
- Inductance Testing: 10KHz 0.1V HP4284A
- RDC:QuadTech 1880 Milliohmmeter
- Surge current Max 10ms: 20X IDC
- Operating temperature: –40℃ to +105℃
- Storage Temperature: –40℃ to +105℃
- Resistance to soldering heat:260℃ for 10 seconds
- Marking: Part number and date code

Note:All specifications subject to change without notice.

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COMMON MODE LINE CHOKES

LF2015 SERIES

FEATURES:

- 0.35A to 2A ratings,low temperature rise
- 1.7mH to 100mH dual chokes
- Excellent Mechanical Strength
- High Reliability and variant PCB–mount housing
- Low resistance and temperature rise

OPTIONS:

- Bulk packaging is standard
- Custom design available

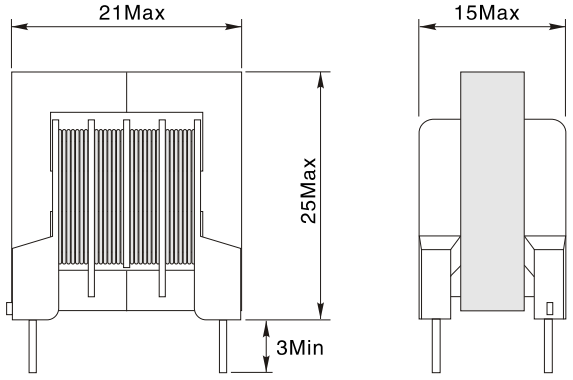
COMMON APPLICATIONS:

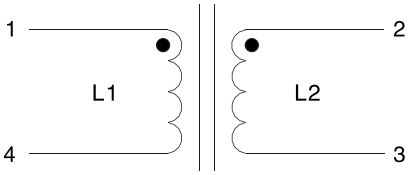
- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Computer Peripheral Equipment
  It accord with the standards of FCC VCCI CISPR FTZ,etc, eliminating of electromagnetic noise of power and signal circuit.

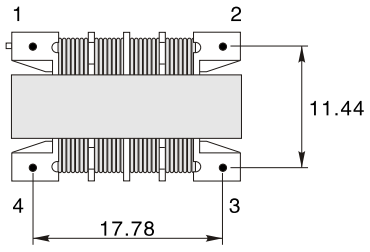
ELECTRICAL CHARACTERISTICS(@25℃)

Part Number	L(0A) (mH)+30%/–25% 10KHz,0.1V	IDC (A)Max	DCR (mΩ)Max
LF2015–172Y	1.7	2	90
LF2015–302Y	3	3	185
LF2015–422Y	4.2	0.48	250
LF2015–702Y	7	1.4	198
LF2015–103Y	10	1	630
LF2015–253Y	25	0.6	1270
LF2015–503Y	50	0.5	2700
LF2015–104Y	100	0.35	4000

PHYSICAL CHARACTERISTICS(mm)



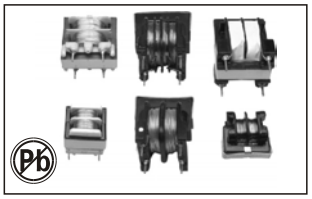




NOTES:
- Max operating voltage:270V at 40℃
- IDC Max: rating AC/DC current A @40℃
- Hi–Pot 2500V AC winding to winding 3S.
- Insulation resistance 100MΩ Min DC 500V
- Temperature Rise Max:40℃
- Inductance Testing: 10KHz 0.1V HP4284A
- RDC:QuadTech 1880 Milliohmmeter
- Surge current Max 10ms: 20X IDC
- Operating temperature: –40℃ to +105℃
- Storage Temperature: –40℃ to +105℃
- Resistance to soldering heat:260℃ for 10 seconds
- Marking: Part number and date code
- All specifications subject to change without notice.

THROUGH–HOLE COMMON MODE CHOKES

LF2327 SERIES



FEATURES:

- 0.5A to 1.0A ratings,low temperature rise
- 1.0mH to 45mH dual chokes
- Excellent Mechanical Strength
- 100KHz to 3MHz common mode resonance
- High Reliability and variant PCB–mount housing
- Low resistance and temperature rise

OPTIONS:

- Bulk packaging is standard
- Custom design available

COMMON APPLICATIONS:

- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Computer Peripheral Equipment

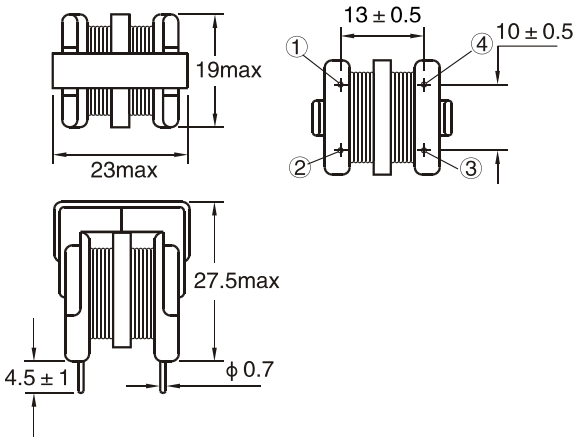
It accord with the standards of FCC VCCI CISPR FTZ,etc, eliminating of electromagnetic noise of power and signal circuit.

ELECTRICAL CHARACTERISTICS:

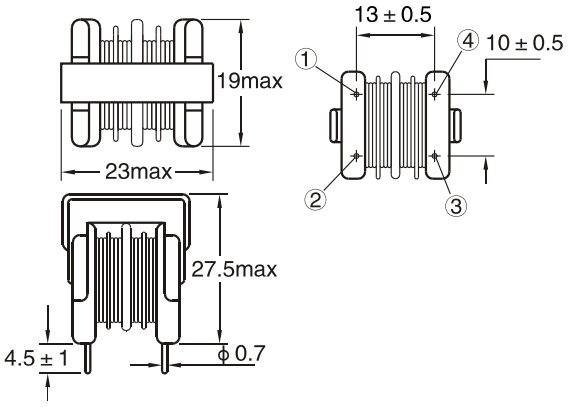
Part Number	Inductance L mH	LK (uH)Max	DCR Ω Max	IDC Max A
LF2327–453Y	45.0	200	2.5	0.5
LF2327–323Y	32.0	20	2.0	0.5
LF2327–253Y	25.0	160	1.2	0.5
LF2327–203Y	20.0	160	1.2	0.5
LF2327–143Y	14.0	140	1.0	0.5
LF2327–103Y	10.0	140	0.8	0.8
LF2327–792Y	7.9	100	0.8	0.8
LF2327–602Y	6.0	100	0.8	0.8
LF2327–402Y	4.0	100	0.7	0.8
LF2327–252Y	2.5	80	0.6	0.8
LF2327–182Y	1.8	80	0.6	0.8
LF2327–102Y	1.0	60	0.4	1.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

2 SECTION

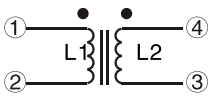


4 SECTION



- Max operating voltage:250V at 40℃
- IDC Max: rating AC/DC current A @40℃
- Hi–Pot 2500V AC winding to winding 3S.
- Insulation resistance 100MΩ Min DC 500V
- Temperature Rise Max:40℃
- Inductance Testing: 10KHz 0.1V HP4284A
- RDC:QuadTech 1880 Milliohmmeter
- Surge current Max 10ms: 20X IDC
- Operating temperature: –40℃ to +105℃
- Storage Temperature: –40℃ to +105℃
- Resistance to soldering heat:260℃ for 10 seconds
- Marking: Part number and date code

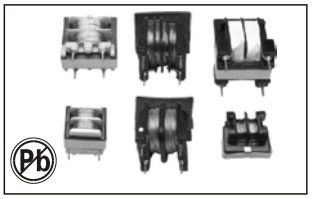
Note:All specifications subject to change without notice.



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THROUGH–HOLE COMMON MODE CHOKES

LF3221 SERIES



FEATURES:

- 0.3A to 5A ratings,low temperature rise
- 1.0mH to 50mH dual chokes
- Excellent Mechanical Strength
- 100KHz to 3MHz common mode resonance
- High Reliability and variant PCB–mount housing
- Low resistance and temperature rise

OPTIONS:

- Bulk packaging is standard
- Custom design available

COMMON APPLICATIONS:

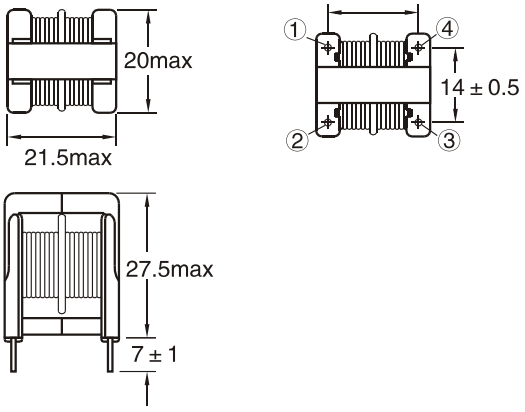
- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDPTelevisions
- Computer Peripheral Equipment

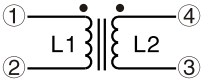
It accord with the standards of FCC VCCI CISPR FTZ,etc, eliminating of electromagnetic noise of power and signal circuit.

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L mH	LK (uH)Max	DCR Ω Max	IDC Max A
LF3221–503Y	50	300	3.0	0.3
LF3221–353Y	35	260	2.0	0.5
LF3221–250Y	25	230	1.2	0.8
LF3221–203Y	20	200	0.7	0.9
LF3221–183Y	16	180	0.5	1.0
LF3221–123Y	12	150	0.4	1.0
LF3221–103Y	10	120	0.25	2.0
LF3221–752Y	7.5	100	0.2	2.0
LF3221–502Y	5.0	80	0.15	3.0
LF3221–302Y	3.0	60	0.1	3.0
LF3221–152Y	1.5	50	0.06	4.0
LF3221–102Y	1.0	50	0.03	5.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:





- Max operating voltage:250V at 40℃
- IDC Max: rating AC/DC current A @40℃
- Hi–Pot 2500V AC winding to winding 3S.
- Insulation resistance 100MΩ Min DC 500V
- Temperature Rise Max:40℃
- Inductance Testing: 10KHz 0.1V HP4284A
- RDC:QuadTech 1880 Milliohmmeter
- Surge current Max 10ms: 20X IDC
- Operating temperature: –40℃ to +105℃
- Storage Temperature: –40℃ to +105℃
- Resistance to soldering heat:260℃ for 10 seconds
- Marking: Part number and date code

Note:All specifications subject to change without notice.

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THT INTEGRATED COMMON MODE AND DIFFERENTIAL MODE CHOKE

LFET16 SERIES



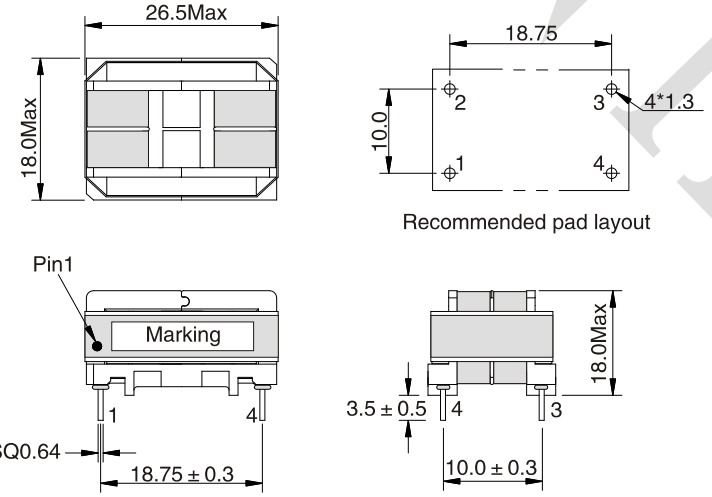
FEATURES:

- Common Mode and Differential Mode Choke intergrated into a single component reducing overall losses and reducing footprint
- Dielectric Strength: 1500Vrms
- Common Mode Inductance: 3.3mH (1Arms) to 47mH (0.4Arms)
- Size (LxWxH): 26.5mm x 18.0mm x 18.0 mm Max
- Safety Spacing: 3.0mm creepage and clearance between windings, 1.5mm between windings and core

ELECTRICAL CHARACTERISTICS:

Part Number	L(mH) Min Common mode (1–2)=(4–3)	Lk(uH) (1–2 with4,3 short)	DCR (mΩ)Max (1–2)=(4–3)	Irms (A)	Isat (A)
LFET16–332Y	3.3	120	180	0.7	1.0
LFET16–682Y	6.8	220	270	0.5	0.7
LFET16–103Y	10	330	500	0.46	0.65
LFET16–153Y	15	500	650	0.43	0.64
LFET16–253Y	25	800	1000	0.42	0.6
LFET16–273Y	27	900	1300	0.4	0.55
LFET16–393Y	39	1250	2250	0.3	0.42
LFET16–473Y	47	1500	2500	0.28	0.4

PHYSICAL CHARACTERISTICS & WINDING

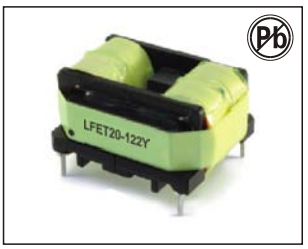


Notes:

- The current rating (Irms) is based upon the temperature rise of the component and represents the rms current which will cause a typical temperature rise of 40℃
- The Saturation current is the current which will typically cause a 20% drop in the differential mode inductance. The peak current should not be exceeded in the application as it will reduce the CM and DM rejection of the component.
- The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
- The LFET16 Series is designed to provide 3.0mm of safety spacing (creepage and clearance distance) between windings and 1.5mm of safety spacing (creepage and clearance distance) between both windings and core.
- All specifications subject to change without notice.

THT INTEGRATED COMMON MODE AND DIFFERENTIAL MODE CHOKE

LFET20 SERIES



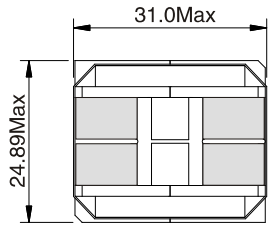
FEATURES:

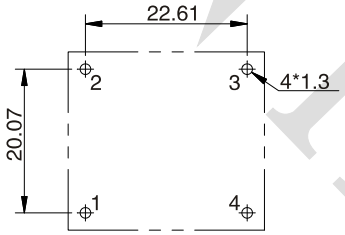
- Common Mode and Differential Mode Choke intergrated into a single component reducing overall losses and reducing footprint
- Dielectric Strength: 1500Vrms
- Common Mode Inductance: 0.28mH (3.5Arms) to 47mH (0.3Arms)
- Size (LxWxH): 31.0mm x 24.9mm x 16.5 mm Max
- Safety Spacing: 3.0mm creepage and clearance between windings, 1.5mm between windings and core

ELECTRICAL CHARACTERISTICS:

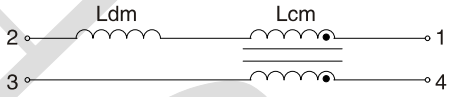
Part Number	L(mH) Min Common mode (1–2)=(4–3)	L(uH) Min Differential mode (1–4 with2,3 short)	DCR (mΩ)Max (1–2)=(4–3)	Irms (A)	Ipeak (A)
LFET20–281Y	0.28	55	32	3.5	4.6
LFET20–411Y	0.41	96	46	2.5	3.33
LFET20–122Y	1.25	320	120	1.5	2
LFET20–332Y	3.3	120	80	0.92	1.30
LFET20–452Y	4.5	685	245	1.0	1.33
LFET20–682Y	6.8	220	140	0.78	1.10
LFET20–103Y	10	330	190	0.53	0.75
LFET20–153Y	15	500	300	0.45	0.65
LFET20–273Y	27	900	450	0.35	0.50
LFET20–393Y	39	1250	610	0.32	0.45
LFET20–473Y	47	1500	750	0.30	0.42

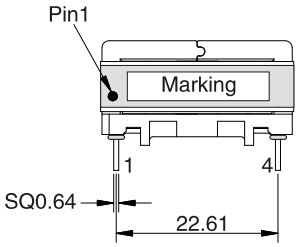
PHYSICAL CHARACTERISTICS & WINDING

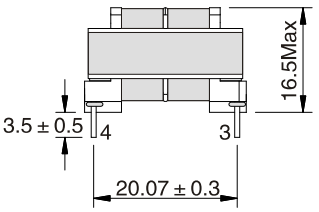




Recommended pad layout







Notes:

- The current rating (Irms) is based upon the temperature rise of the component and represents the rms current which will cause a typical temperature rise of 40℃
- The peak current is the current which will typically cause a 20% drop in the differential mode inductance. The peak current should not be exceeded in the application as it will reduce the CM and DM rejection of the component.
- The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
- The LFET20 Series is designed to provide 3.0mm of safety spacing (creepage and clearance distance) between windings and 1.5mm of safety spacing (creepage and clearance distance) between both windings and core.
- All specifications subject to change without notice.