

# **SMD POWER INDUCTOR CATALOG 3. (HIGH CURRENT)**

# INDUCTORS

FOR POWER LINE SMD

YP-5030P SERIES

## FEATURES

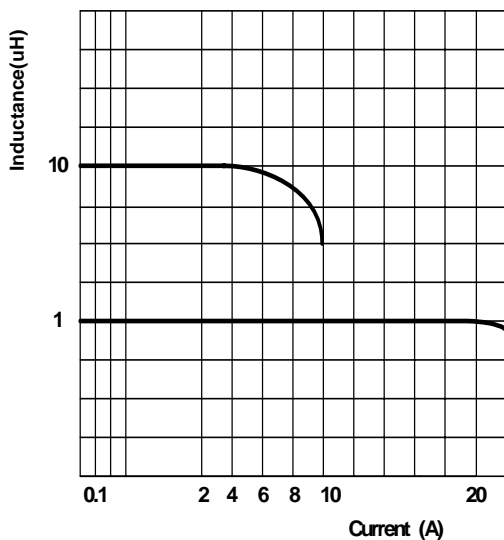
- .Magnetically Shielded
- .High Efficiency and cost-effective
- .10% to 60% lower DCR
- .Flat top for reliable surface mounting
- .Frequency Range up to 5MHz



## APPLICATIONS

- .Backlighting devices / DC-DC converter / Power applications

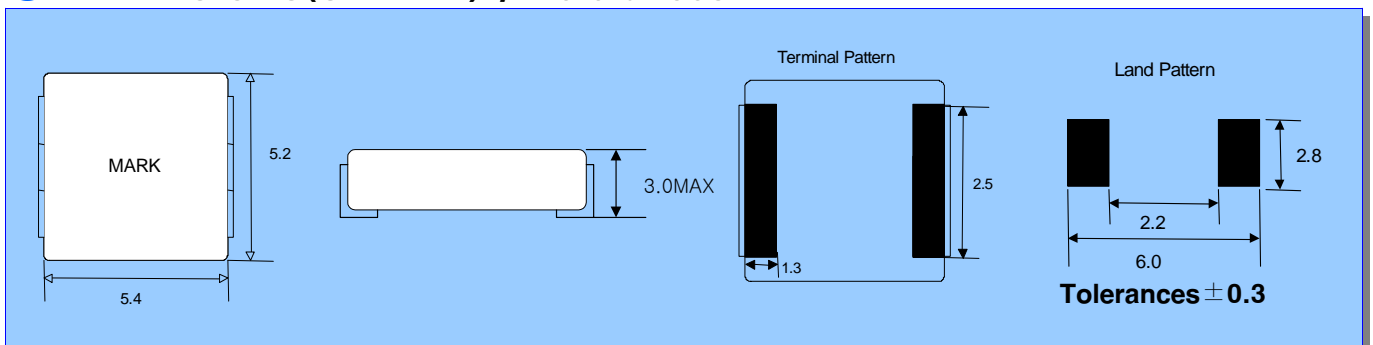
## INDUCTANCE vs CURRENT      ELECTRICAL CHARACTERISTICS



Part Number	L ± 20% (uH)	DCR (mΩ) MAX	Saturation Rated Current(A)	Temperature Rise Current(A)
YP-5030P-R47M	0.47(±30%)	6.3	9.7	11.0
1R0M	1.0	13.0	7.7	8.8
1R5M	1.5	18.0	6.5	6.5
2R2M	2.2	24.0	7.0	6.0
3R3M	3.3	45.0	5.0	4.8
4R7M	4.7	63.0	3.5	3.8
6R8M	6.8	103.0	2.6	3.2
8R2M	8.2	112.0	2.3	3.1
100M	10.0	120.0	2.2	2.8

1. Inductance tested at 100KHz 0.1v
2. Operating temperature range -55°C to +125°C
3. Electrical specifications at 25°C
4. Saturation Rated Current: 20% lower than its initial value(Typ.)
5. Temperature Rise Current: ΔT=40°C(Typ.)

## DIMENSIONS(Unit:mm) / Tolerances ± 0.2



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# INDUCTORS

FOR POWER LINE SMD

YP-7018 SERIES

## FEATURES

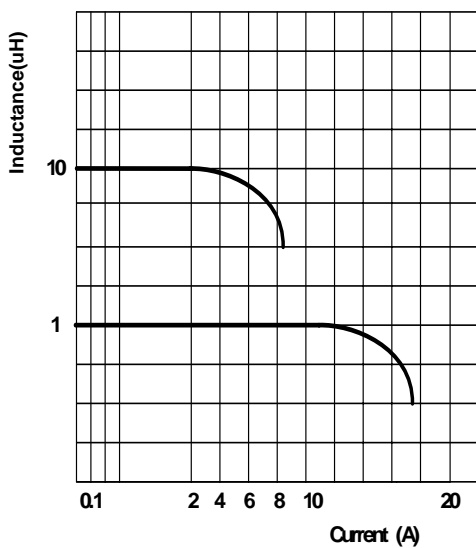
- .Magnetically Shielded
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- .10% to 60% lower DCR
- .Flat top for reliable surface mounting
- .Frequency Range up to 5MHz



## APPLICATIONS

- .Backlighting devices / DC-DC converter / Power applications

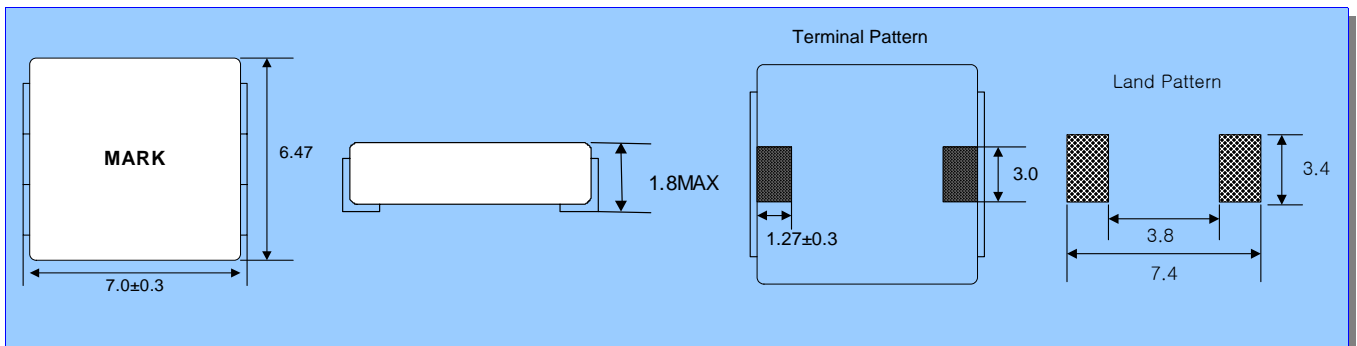
## INDUCTANCE vs CURRENT      ELECTRICAL CHARACTERISTICS



Part Number	L ± 20% (uH)	DCR (mΩ) MAX	Saturation Rated Current(A)	Temperature Rise Current(A)
YP-7018R-1R0M	1.0	18.8	11.0	6.0
1R5M	1.5	39.3	9.7	3.5
2R2M	2.2	45.0	9.4	3.2
3R3M	3.3	55.0	7.7	2.9
4R7M	4.7	80.0	5.6	2.5
6R8M	6.8	110	3.2	2.0

1. Inductance tested at 100KHz 0.1v
2. Operating temperature range -55°C to +125°C
3. Electrical specifications at 25°C
4. Saturation Rated Current: 20% lower than its initial value(Typ.)
5. Temperature Rise Current: ΔT=40°C(Typ.)

## DIMENSIONS(Unit:mm) / Tolerances ± 0.2



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# INDUCTORS

FOR POWER LINE SMD

YP-7024 SERIES

## FEATURES

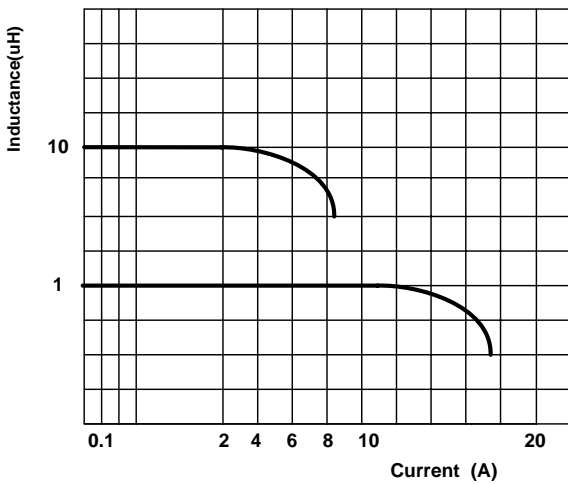
- .Magnetically Shielded
- .High Efficiency and cost-effective
- .10% to 60% lower DCR
- .Flat top for reliable surface mounting
- .Frequency Range up to 5MHz



## APPLICATIONS

- .Backlighting devices / DC-DC converter / Power applications

## INDUCTANCE vs CURRENT

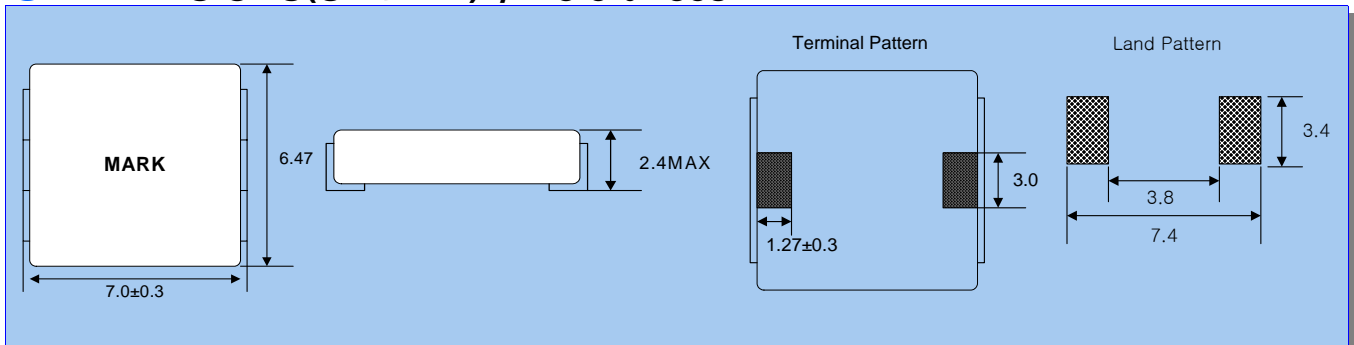


## ELECTRICAL CHARACTERISTICS

Part Number	L ± 20% (uH)	DCR (mΩ) MAX	CURRENT (A) MAX
YP-7024R-R68M	0.68	9.4	17
R82M	0.82	11.8	16
1R0M	1.0	14.2	15
1R5M	1.5	21.2	14
2R2M	2.2	34.0	13
3R3M	3.3	51.6	12
4R7M	4.7	63.0	9
6R8M	6.8	95.0	8
8R2M	8.2	106.0	7
100M	10	129.0	6

1. Inductance tested at 100KHz 0.1v
2. Operating temperature range -55°C to +120°C
3. Electrical specifications at 25°C
4. DC current at which the inductance drops 20%

## DIMENSIONS(Unit:mm) / Tolerances ± 0.2



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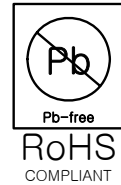
# INDUCTORS

FOR POWER LINE SMD

YP-7030R SERIES

## FEATURES

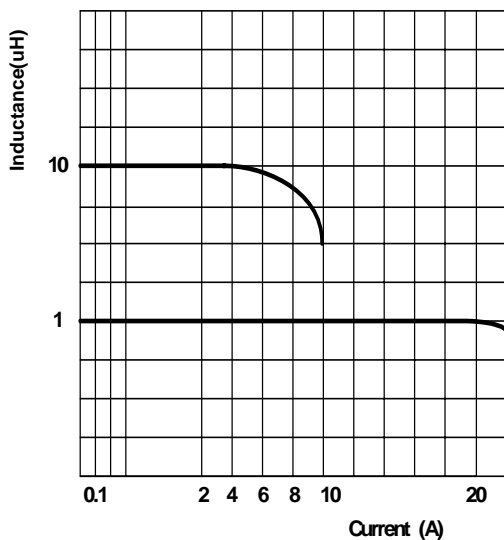
- .Magnetically Shielded
- .High Efficiency and cost-effective
- .10% to 60% lower DCR
- .Flat top for reliable surface mounting
- .Frequency Range up to 5MHz



## APPLICATIONS

- .Backlighting devices / DC-DC converter / Power applications

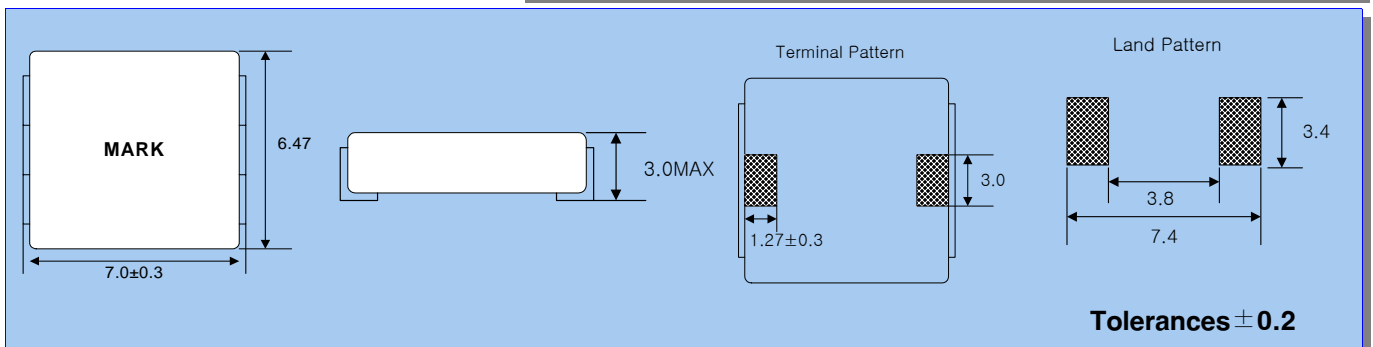
## INDUCTANCE vs CURRENT      ELECTRICAL CHARACTERISTICS



Part Number	L ± 20% (uH)	DCR (mΩ) MAX	Saturation Rated Current(A)	Temperature Rise Current(A)
YP-7030R-R47M	0.47	3.4	19.0	15.0
R68M	0.68	4.6	18.5	13.0
R82M	0.82	6.6	18.0	10.5
1R0M	1.0	6.9	17.5	9.5
1R5M	1.5	10.7	16.0	9.0
2R2M	2.2	13.9	14.5	8.0
3R3M	3.3	28.2	11.0	6.0
4R7M	4.7	38.8	7.5	5.0
6R8M	6.8	48.9	6.5	4.5
8R2M	8.2	55.9	6.0	4.0
100M	10	84.0	5.0	3.5

1. Inductance tested at 100KHz 0.1v
2. Operating temperature range -55°C to +125°C
3. Electrical specifications at 25°C
4. Saturation Rated Current: 20% lower than its initial value(Typ.)
5. Temperature Rise Current: ΔT=40°C(Typ.)

## DIMENSIONS(Unit:mm)



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# INDUCTORS

FOR POWER LINE SMD

YP-1040 SERIES

## FEATURES

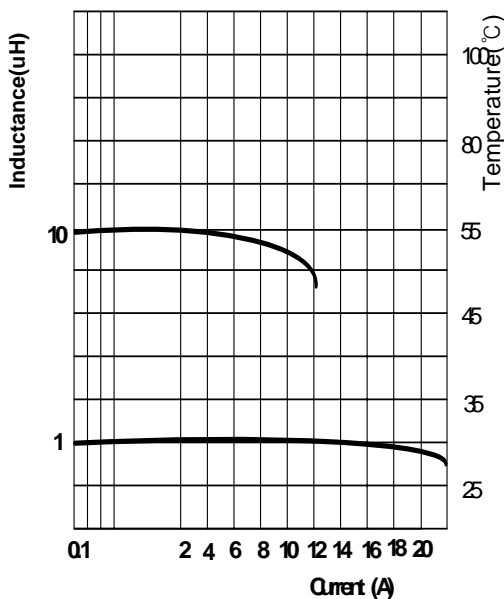
- .Magnetically Shielded
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- .10% to 60% lower DCR
- .Flat top for reliable surface mounting
- .Frequency Range up to 5MHz



## APPLICATIONS

- .Backlighting devices / DC-DC converter / Power applications

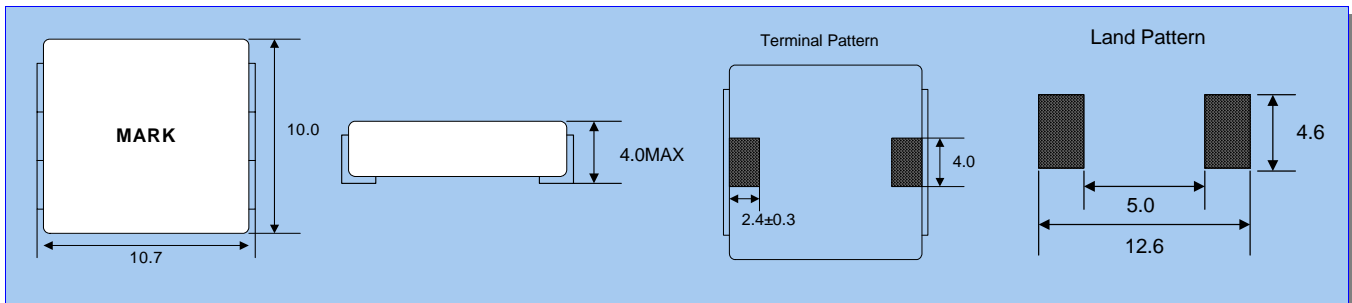
## INDUCTANCE vs CURRENT      ELECTRICAL CHARACTERISTICS



Part Number	L ± 20% (uH)	DCR (mΩ) MAX	Saturation Rated Current(A)	Temperature Rise Current(A)
YP-1040R-R22M	0.22	0.82	60	35
R47M	0.47	1.8	52	29
R56M	0.56	2.2	48	26
R82M	0.82	3.0	37	20
1R0M	1.0	3.7	30	16
1R5M	1.5	5.5	24	13
1R8M	1.8	6.1	20	11
2R2M	2.2	8.1	18	9.5
3R3M	3.3	12.2	16.5	8.5
4R7M	4.7	17.0	14	7.5
6R8M	6.8	24.9	12	7.0
100M	10	36.0	10	6.8

1. Inductance tested at 100KHz 0.1v
2. Operating temperature range -55°C to +125°C
3. Electrical specifications at 25°C
4. Saturation Rated Current: 20% lower than its initial value(Typ.)
5. Temperature Rise Current:  $\Delta T=40^{\circ}\text{C}$  (Typ.)

## DIMENSIONS(Unit:mm) / Tolerances ± 0.4



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# INDUCTORS

FOR POWER LINE SMD

YP-1050 SERIES

## FEATURES

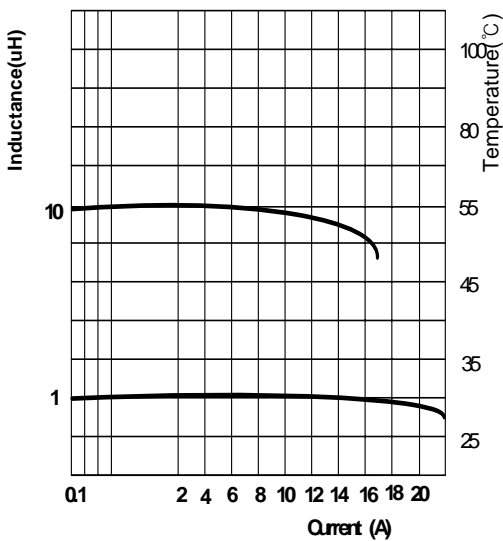
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## APPLICATIONS

- .Backlighting devices / DC-DC converter / Power applications

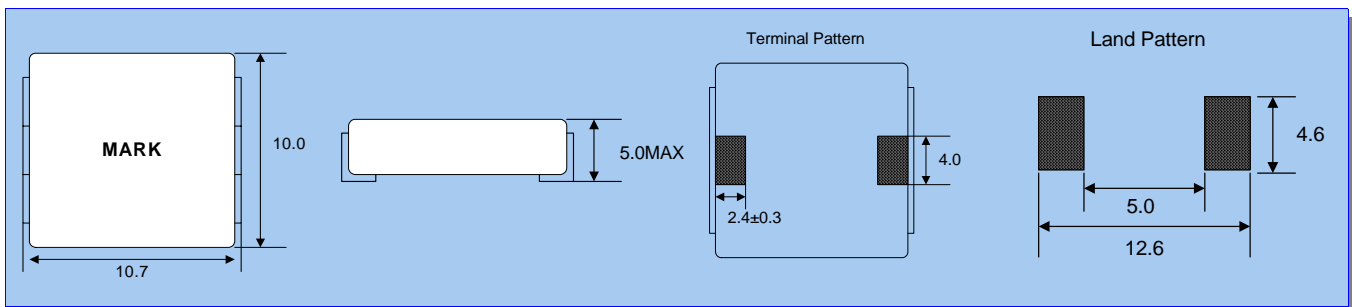
## INDUCTANCE vs CURRENT      ELECTRICAL CHARACTERISTICS



Part Number	L ± 20% (uH)	DCR (mΩ)MAX	Saturation Rated Current(A)	Temperature Rise Current(A)
YP-1050R-1R0M	1.0	3.5	38.0	20.0
2R2M	2.2	7.0	30.0	17.0
3R3M	3.3	14.0	24.0	11.5
4R7M	4.7	17.0	19.5	10.0
6R8M	6.8	19.0	15.0	8.5
100M	10	29.0	14.0	7.5

1. Inductance tested at 100KHz 0.1v
2. Operating temperature range -55°C to +125°C
3. Electrical specifications at 25°C
4. Saturation Rated Current: 20% lower than its initial value(Typ.)
5. Temperature Rise Current: ΔT=40°C(Typ.)

## DIMENSIONS(Unit:mm) / Tolerances ± 0.4



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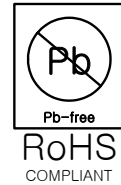
# INDUCTORS

FOR POWER LINE SMD

YP-1330 SERIES

## FEATURES

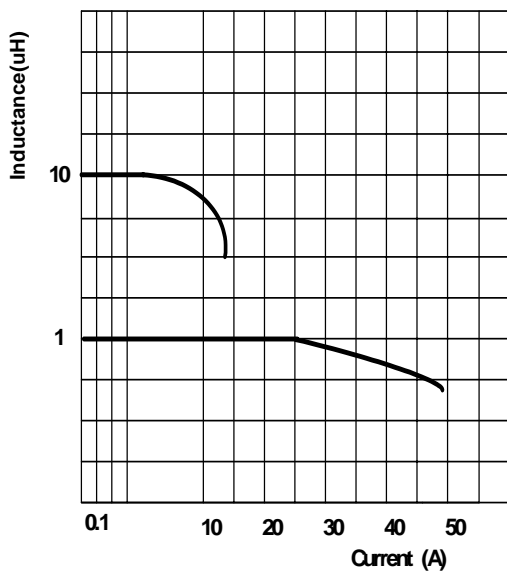
- .Magnetically Shielded
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- .Flat top for reliable surface mounting
- .Frequency Range up to 5MHz



## APPLICATIONS

- .Backlighting devices / DC-DC converter / Power applications

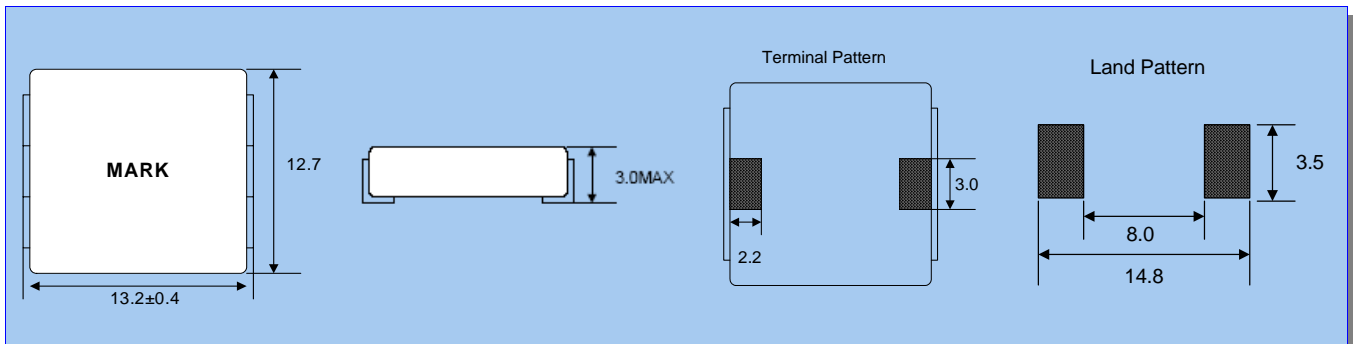
## INDUCTANCE vs CURRENT      ELECTRICAL CHARACTERISTICS



Part Number	L ± 20% (uH)	DCR (mΩ) MAX	Saturation Rated Current(A)	Temperature Rise Current(A)
YP-1330R-2R2M	2.2	13	22	11.0
3R3M	3.3	15	20	10.0
4R7M	4.7	30	16	8.0
100M	10	48	12	6.0
150M	15	57	10	5.0
200M	20	105	7	3.5
330M	33	150	5	2.0

1. Inductance tested at 100KHz 0.1v
2. Operating temperature range -55°C to +125°C
3. Electrical specifications at 25°C
4. Saturation Rated Current: 20% lower than its initial value(Typ.)
5. Temperature Rise Current: ΔT=40°C(Typ.)
6. Parts are packing on 13" reels 500 parts per reel.

## DIMENSIONS(Unit:mm) / Tolerances ± 0.3



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# INDUCTORS

FOR POWER LINE SMD

YP-1350 SERIES

## FEATURES

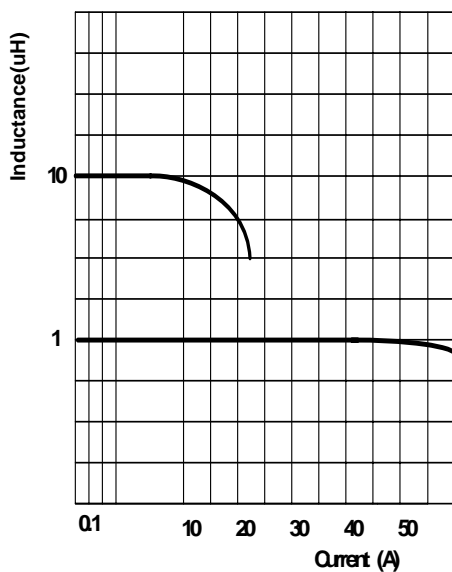
- .Magnetically Shielded
- .High Efficiency and cost-effective
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- .Flat top for reliable surface mounting
- .Frequency Range up to 5MHz



## APPLICATIONS

- .Backlighting devices / DC-DC converter / Power applications

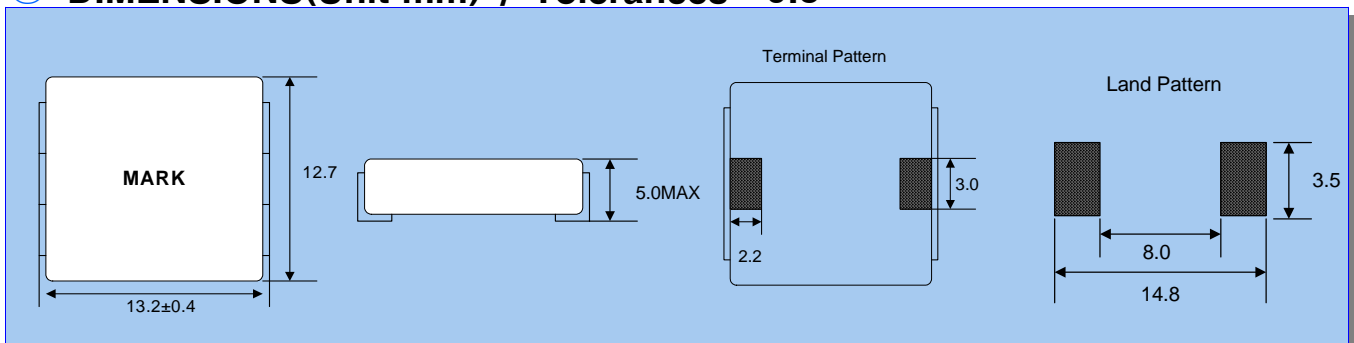
## INDUCTANCE vs CURRENT      ELECTRICAL CHARACTERISTICS



Part Number	L ± 20% (uH)	DCR (mΩ)MAX	Saturation Rated Current(A)	Temperature Rise Current(A)
YP-1350R-R47M	0.47	1.3	65.0	38
R82M	0.82	2.3	53.0	31
1R0M	1.0	2.5	50.0	29
1R5M	1.5	4.1	48.0	23
2R2M	2.2	5.5	32.0	20
3R3M	3.3	9.2	32.0	15
4R7M	4.7	15.0	27.0	12
6R8M	6.8	18.5	21.0	11
8R2M	8.2	22.5	18.0	9.5
100M	10	25.5	16.0	9
150M	15	48.0	15.0	7
220M	22	50.5	11.0	5.5
330M	33	92.0	7.5	4.0
470M	47	115.0	8.0	4.0

1. Inductance tested at 100KHz 0.1v
2. Operating temperature range -55°C to +125°C
3. Electrical specifications at 25°C
4. Saturation Rated Current: 20% lower than its initial value(Typ.)
5. Temperature Rise Current: ΔT=40°C(Typ.)
6. Parts are packing on 13" reels 500 parts per reel.

## DIMENSIONS(Unit:mm) / Tolerances ± 0.3



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# INDUCTORS

FOR POWER LINE SMD

YP-1360 SERIES

## FEATURES

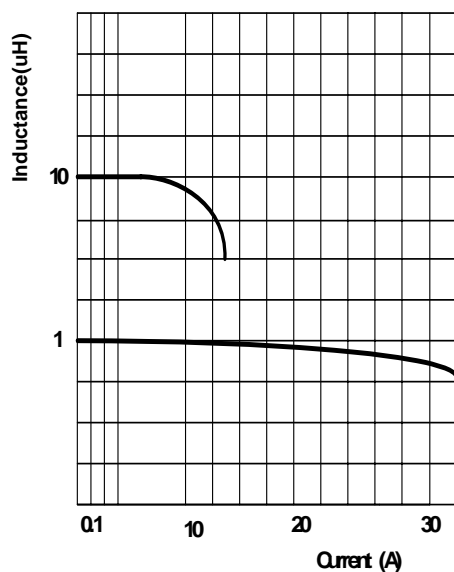
- .Magnetically Shielded
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- .10% to 60% lower DCR
- .Flat top for reliable surface mounting
- .Frequency Range up to 5MHz



## APPLICATIONS

- .Backlighting devices / DC-DC converter / Power applications

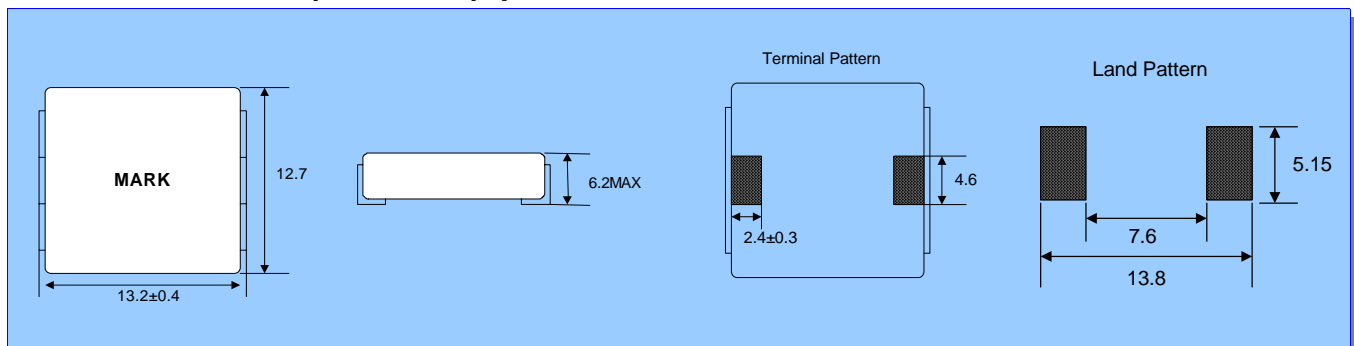
## INDUCTANCE vs CURRENT      ELECTRICAL CHARACTERISTICS



Part Number	L ± 20% (uH)	DCR (mΩ)MAX	Saturation Rated Current(A)	Temperature Rise Current(A)
YP-1360R-1R0M	1.0	2.4	48.0	27.0
1R7M	1.7	3.3	35.0	24.0
2R2M	2.2	4.5	33.0	20.0
3R3M	3.3	6.5	25.0	16.0
4R7M	4.7	9.2	25.0	11.0
330M	33	65.0	10.0	5.0
470M	47	80.0	9.0	4.5
560M	56	125.0	7.0	3.5
101M	100	250.0	6.0	3.0
121M	120	340.0	5.0	2.1

1. Inductance tested at 100KHz 0.1v
2. Operating temperature range -55°C to +125°C
3. Electrical specifications at 25°C
4. Saturation Rated Current: 20% lower than its initial value(Typ.)
5. Temperature Rise Current: ΔT=40°C(Typ.)
6. Parts are packing on 13" reels 250 parts per reel.

## DIMENSIONS(Unit:mm) / Tolerances ± 0.3



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# INDUCTORS

FOR POWER LINE SMD

YP-1770 SERIES

## FEATURES

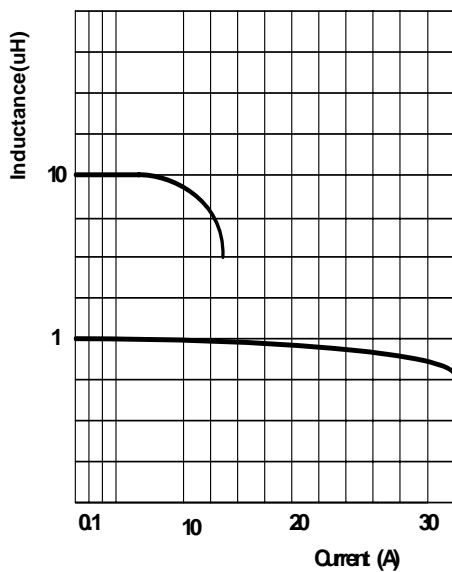
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- .Frequency Range up to 5MHz



## APPLICATIONS

- .Backlighting devices / DC-DC converter / Power applications

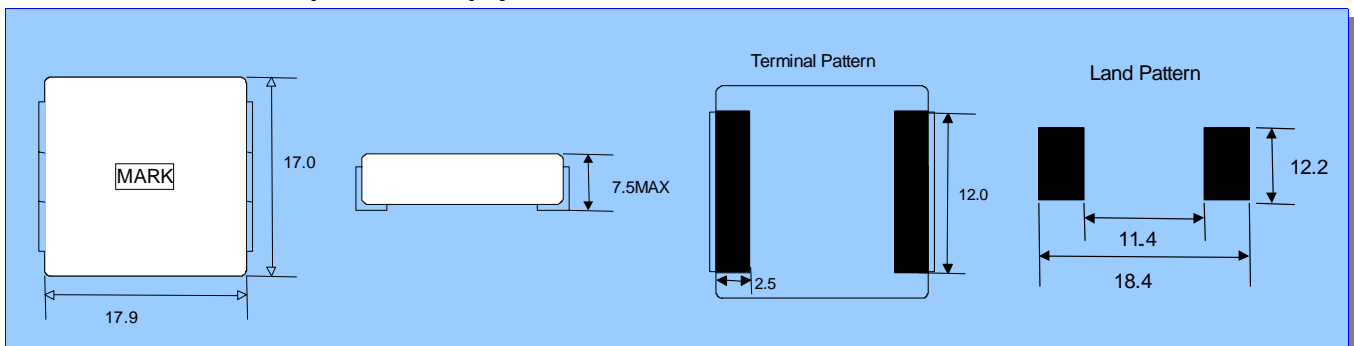
## INDUCTANCE vs CURRENT      ELECTRICAL CHARACTERISTICS



Part Number	L ± 20% (uH)	DCR (mΩ)MAX	Saturation Rated Current(A)	Temperature Rise Current(A)
YP-1770R-R47M	0.47	0.98	110	60
1R0M	1.0	1.4	70	45
1R5M	1.5	1.9	60	40
2R2M	2.2	2.5	55	32
3R3M	3.3	3.8	50	25
4R7M	4.7	5.1	40	23
5R6M	5.6	7.5	38	20
6R8M	6.8	8.8	30	17
100M	10	12.0	24	15
150M	15	19.9	23	12
220M	22	27	20	11

1. Inductance tested at 100KHz 0.1v
2. Operating temperature range -55°C to +125°C
3. Electrical specifications at 25°C
4. Saturation Rated Current: 20% lower than its initial value(Typ.)
5. Temperature Rise Current: ΔT=40°C(Typ.)
6. Parts are packing on 13" reels 250 parts per reel.

## DIMENSIONS(Unit:mm) / Tolerances ± 0.3



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