

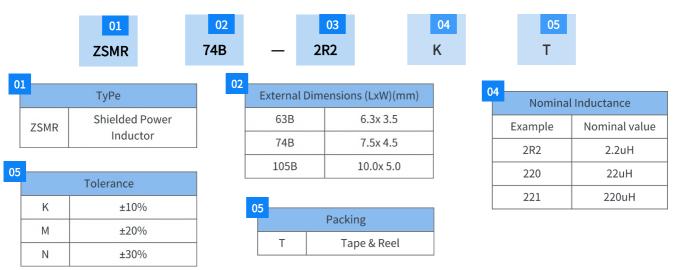
## **FEATURES**

- ROHS, Halogen free and REACH Compliance.
- Shielded power inductor.
- Various high power inductors are suporior to be hight saturation for surface moun-ting.
- Packed in embossed carriertape and can bevse by autoatic mounting machine

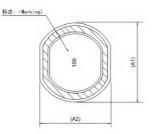
## **APPLICATIONS**

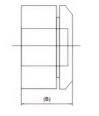
Portable computers, GPS, LED televisions, TV,DC/DC converter and power supply for VTRs.

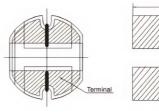
### **PRODUCT IDENTIFICATION**

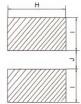


# **SHAPE AND DIMENSIONS**







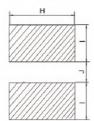


Part Number	Dimensions(mm)						
	A1	A2	В	Н	I	C(REF)	
ZSMR63B	6.2±0.3	5.6±0.3	3.5MAX	5.5	2.25	1.7	
ZSMR74B	7.8±0.4	7.0±0.4	4.5±0.5	7.5	4.0	2.0	
ZSMR105B	10.0±0.4	9.0±0.4	5.0±0.5	9.5	5.0	2.5	



Specifications subject to change without notice. Please check our website for latest information. **Tel:** 0086-755-61350640 **Fax:** 0086-755-61350641 **E-Mail:**sales@ZXcompo.com **Web:**www.zxcompo.com

## **RECOMMENDED PC BOARD PATTERN**



Part Number	Dimensions(mm)				
	D	E	F		
ZSMR63B	5.5	2.25	1.7		
ZSMR74B	7.5	4.0	2.0		
ZSMR105B	9.5	5.0	2.5		

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# **SPECIFICATIONS**

#### • ZSM3511 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max( $\Omega$ )	Rated Current Max(mA)
ZSMR63B-1R0	1.0		100/0.25	0.05	2600
ZSMR63B-1R5	1.5		100/0.25	0.06	2400
ZSMR63B-2R2	2.2		100/0.25	0.07	2000
ZSMR63B-3R3	3.3	Ν	100/0.25	0.08	1800
ZSMR63B-4R7	4.7		100/0.25	0.10	1500
ZSMR63B-6R8	6.8		100/0.25	0.11	1200
ZSMR63B-100	10	К. М	100/0.25	0.14	1000
ZSMR63B-120	12		100/0.25	0.16	940
ZSMR63B-150	15		100/0.25	0.18	860
ZSMR63B-180	18		100/0.25	0.25	780
ZSMR63B-220	22		100/0.25	0.32	760
ZSMR63B-270	27		100/0.25	0.38	640
ZSMR63B-330	33		100/0.25	0.41	610
ZSMR63B-390	39		100/0.25	0.47	530
ZSMR63B-470	47		100/0.25	0.51	500
ZSMR63B-560	56		100/0.25	0.72	460
ZSMR63B-680	68		100/0.25	0.82	420



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#### • ZSMR74B TYPE

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Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Rated Current Max(mA)
ZSMR74B-100	10		100/0.25	0.07	1650
ZSMR74B-120	12		100/0.25	0.07	1570
ZSMR74B-150	15	К. М	100/0.25	0.08	139
ZSMR74B-180	18		100/0.25	0.10	1290
ZSMR74B-220	22		100/0.25	0.13	1120
ZSMR74B-270	27		100/0.25	0.16	1060
ZSMR74B-330	33		100/0.25	0.18	970
ZSMR74B-390	39		100/0.25	0.18	910
ZSMR74B-470	47		100/0.25	0.27	800
ZSMR74B-560	56		100/0.25	0.29	760
ZSMR74B-680	68		100/0.25	0.33	660
ZSMR74B-820	82		100/0.25	0.43	620
ZSMR74B-101	100		100/0.25	0.49	550
ZSMR74B-121	120		100/0.25	0.68	490
ZSMR74B-151	150		100/0.25	0.94	440
ZSMR74B-181	180		100/0.25	1.00	400
ZSMR74B-221	220		100/0.25	1.18	360

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#### Note: When ordering, please specify tolerance code. Tolerance: K: $\pm 10\%$ , M: $\pm 20\%$ ;

1.Operating temperature range -40 -125°C

2.Isat for Inductance drop 30% from its value without current

#### • ZSMR105B TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Rated Current Max(mA)
ZSMR105B-100	10	- M	100/0.25	0.06	2000
ZSMR105B-120	12		100/0.25	0.07	1900
ZSMR105B-150	15		100/0.25	0.07	1700
ZSMR105B-180	18		100/0.25	0.08	1550
ZSMR105B-220	22		100/0.25	0.08	1400
ZSMR105B-270	27		100/0.25	0.10	1300



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Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Rated Current Max(mA)
ZSMR105B-330	33	К. М	100/0.25	0.11	1100
ZSMR105B-390	39		100/0.25	0.12	1100
ZSMR105B-470	47		100/0.25	0.14	1000
ZSMR105B-560	56		100/0.25	0.19	900
ZSMR105B-680	68		100/0.25	0.21	850
ZSMR105B-820	82		100/0.25	0.28	750
ZSMR105B-101	100		100/0.25	0.34	700
ZSMR105B-121	120		100/0.25	0.37	600
ZSMR105B-151	150		100/0.25	0.51	550
ZSMR105B-181	180		100/0.25	0.57	500
ZSMR105B-221	220		100/0.25	0.78	450
ZSMR105B-271	270		100/0.25	0.87	400
ZSMR105B-331	330		100/0.25	1.20	350
ZSMR105B-391	390		100/0.25	1.34	350
ZSMR105B-471	470		100/0.25	1.50	300

# Note: When ordering, please specify tolerance code. Tolerance: K: ±10%, M: ±20%; 1.0 perating temperature range -40 -125℃

2. Isat for Inductance drop 30% from its value without current



# DETAIL ELECTRICAL CHARACTERISTICS

1. Operating temperature range: -40 to + 105°C(Includes temperature when the coil is heated).

2. External appearance: On visual inspection, the coil has no external defects.

3. Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Y

withstanding at below conditions.

Terminal should not peel off. (refer to figure at right) 5. 0N 60 sec.

4. Insulating resistance: Over 100M $\Omega$  at 100V D.C. between coil and core.

5. Dielectric strength: No dielectric breakdown at 100V D.C. for 1 minute between coil and core.

6. Temperature characteristics: Inductance coefficient (0~2,000)x10-6/°C(-25~+80°C degree Celsius), inductance deviation within±5.0%, after 96 hours.

7. Humidity characteristics (Moisture Resistance): Inductance deviation within  $\pm 5\%$ , after 96 hours in 90~95% relative humidity at 40  $\pm 2^{\circ}$ Cand 1 hour drying under normal condition.

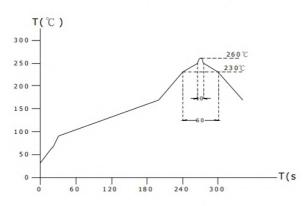
8. Vibration resistance: Inductance deviation within ±5%, after vibration for 1 hour. In each of three orientations at sweep vibration (10~55~10 Hz) with 1.5mm P-P amplitudes.

9. Shock resistance: Inductance deviation within ±5%, after being dropped once with 981m/s2 (100G) shock attitude upon a rubber block method shock testing machine, in three different orientations.

10. Resistance to Soldering Heat: 260°C, 10 seconds(See attached recommend reflow).

11. Storage condition: Temperature Range: 0°C ~ 35°C; -40°C ~ 105°C (after PCB), Humidity Range: 50% ~ 70% RH.

12. Use components within 12 months. If 12 months or more have elapsed, check solderability before use. 13. Reflow profile recommend:



Lead-free heat endurance test

Lead-free the recommended reflow condition

