

## 電源用メタルパワーインダクタ Metal Power Inductors For Power Source

# XRK series

RoHS

AEC-Q200

XRK0530A  
XRK0730A  
XRK1040A  
XRK1365A

### 特長

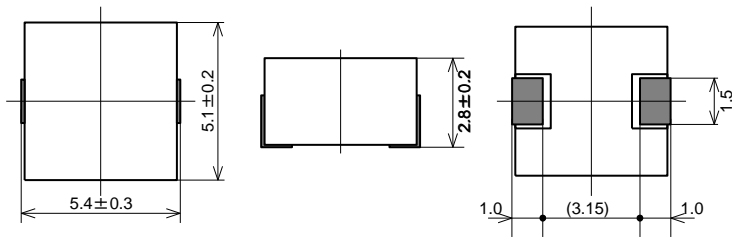
- ・ 金属磁性材料を使用し小型化と大電流化を実現
- ・ ギャップレス一体構造で低唸り
- ・ 環境温度によって直流重畳特性の変化が少ない
- ・ AEC-Q200に対応
- ・ 動作温度範囲：-40°C～+150°C（自己発熱を含む）

### Features

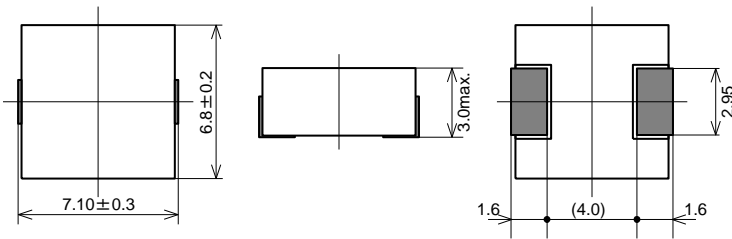
- ・ Realization of small size and high current specifications by metallic magnetic material.
- ・ Decreased acoustic noise by there are no air gaps.
- ・ Low inductance variance in temperature environments.
- ・ AEC-Q200 compliant
- ・ Operating Temperature:-40°C～+150°C(Including Self-heating)



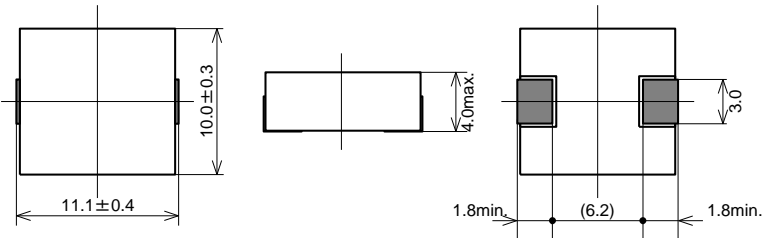
## ■XRK0530A



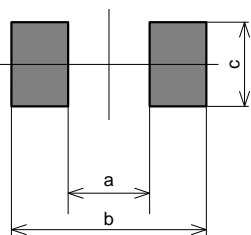
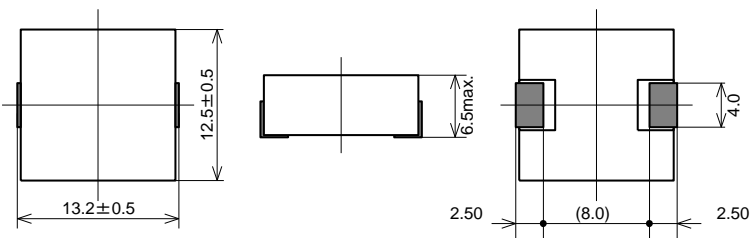
## ■XRK0730A



## ■XRK1040A



## ■XRK1365A



Recommended Land Pattern 推奨ランドパターン

Type	a	b	c
XRK0530A	2.5	5.9	2.0
XRK0730A	3.3	7.9	3.4
XRK1040A	5.4	12.0	4.5
XRK1365A	7.4	13.8	4.5



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## ■XRK series

Inductance インダクタンス	DC Resistance 直流抵抗 (mΩ) max. - typical								DC saturation allowable current 直流重畳許容電流 (A)				Temperature rise allowable current 温度上昇許容電流 (A)			
	Code	(μH)	XRK0530A	XRK0730A	XRK1040A	XRK1365A	XRK0530A	XRK0730A	XRK1040A	XRK1365A	XRK0530A	XRK0730A	XRK1040A	XRK1365A		
R15	0.15		1.75	1.50						36.0			18.5			
R20	0.20	2.30	2.10		0.72	0.63				18.0		40.0	15.8	33.0		
R22	0.22	2.30	2.10	2.70	2.30					24.0	24.0		15.8	17.0		
R33	0.33	4.30	3.90	4.00	3.50					16.0	19.0		11.8	14.0		
R35	0.35	4.30	3.90							15.0			11.8			
R36	0.36				1.20	1.04						33.0		26.0		
R45	0.45				1.23	1.07						32.0		25.0		
R47	0.47	7.20	6.50	4.20	3.70	1.27	1.10			12.0	17.0	35.0	9.20	12.0		
R56	0.56			5.20	4.70	1.80	1.56					24.0		10.3		
R68	0.68	9.10	8.20	5.50	5.00					12.0	15.0		8.00	10.0		
R75	0.75	9.40	8.50							12.0			7.80			
R82	0.82			8.00	6.70						14.0			8.50		
R90	0.9				2.50	2.17						22.0		20.0		
1R0	1.0	11.4	10.4	10.0	9.00	3.30	2.95	1.77	1.65	8.50	13.0	20.0	30.0	7.10		
1R2	1.2			10.2	9.30			2.12	1.98			28.0		7.80		
1R5	1.5	18.5	17.1	15.5	14.0	4.20	3.80	2.35	2.10	6.80	11.0	17.0	26.0	5.20		
1R8	1.8							2.94	2.75			25.0		6.60		
2R2	2.2	25.0	22.5	20.0	18.0	7.00	6.00	3.30	2.96	6.40	10.0	16.0	22.0	4.50		
3R3	3.3	40.4	36.4	30.0	28.0	11.8	10.8	4.30	3.70	5.60	9.00	11.5	20.0	3.80		
4R7	4.7	60.0	54.0	30.0	28.0	18.0	15.0	7.50	6.70	4.20	8.80	9.00	15.0	3.10		
5R6	5.6	70.6	63.0			17.0	14.0	9.00	7.50	4.00		9.00	17.0	2.80		
6R8	6.8	97.2	81.0	60.0	54.0	19.0	16.0	11.5	10.0	3.80	6.40	9.00	20.0	2.30		
7R8	7.8							11.5	10.0			16.0		3.50		
8R2	8.2			68.0	64.0			13.0	11.5			5.60		6.40		
100	10	108	90.0	77.6	70.5	30.0	27.0	17.5	15.5	2.30	4.40	9.00	12.0	3.10		
120	12							19.0	17.0				11.0	3.10		
150	15			127	118	50.0	45.0	25.0	22.0			4.00	6.80	2.20		
220	22			149	135	65.0	58.0	35.0	31.3			3.40	6.00	3.80		
330	33			242	220	105	92.0	45.0	42.0			2.30	4.80	2.00		
470	47				181	165							6.00	3.20		
560	56													2.80		
101	100					300	270	65.0	55.0			3.60	4.60	1.90		
												2.00	4.60	5.00		
														6.30		
														6.10		
														5.50		
														4.80		
														4.70		
														4.60		

Notes: 1. Measurement Frequency for Inductance: 100kHz  
 2. DC saturation allowable current: Value of inductance decrease 20%  
 3. Temperature rise allowable current: A rise in temperature of core surface is 30°C

記事: 1. インダクタンス測定周波数: 100kHz  
 2. 直流重畳許容電流: インダクタンスの減少が-20%となる電流値  
 3. 温度上昇許容電流: コアの表面温度上昇が30°Cとなる電流値

### Inductance Range インダクタンス範囲

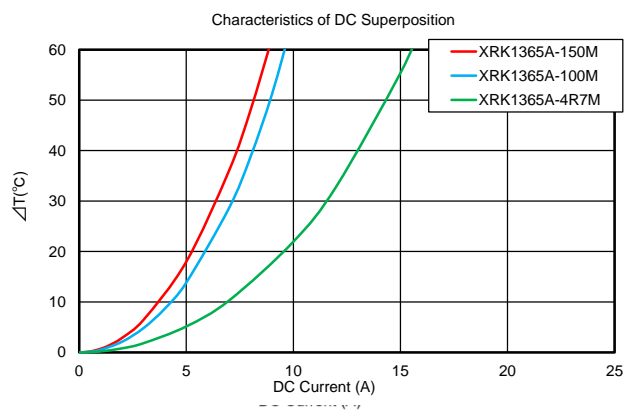
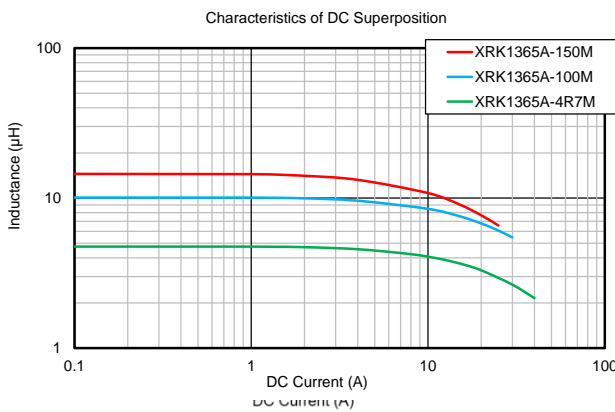
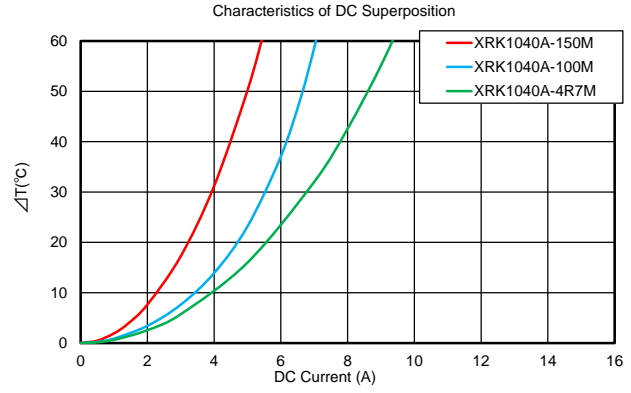
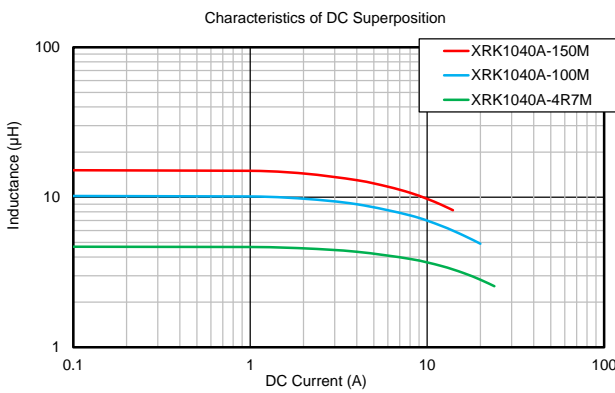
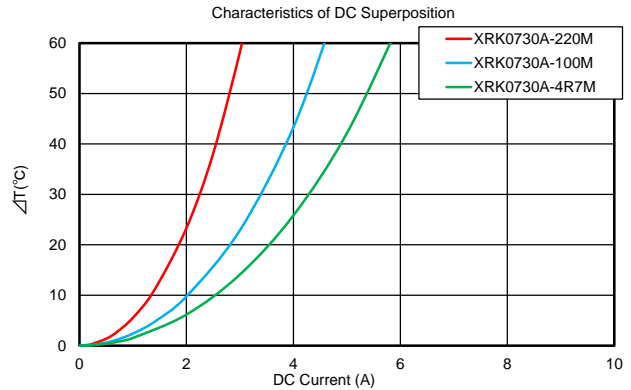
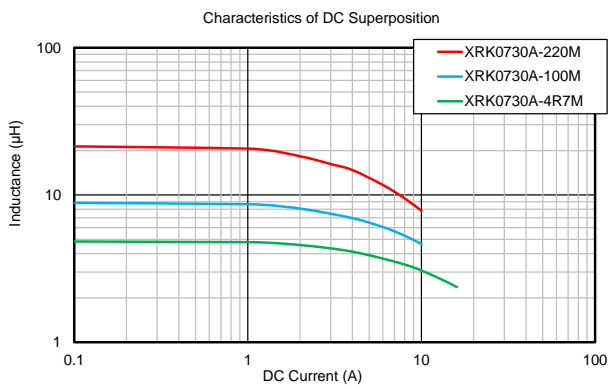
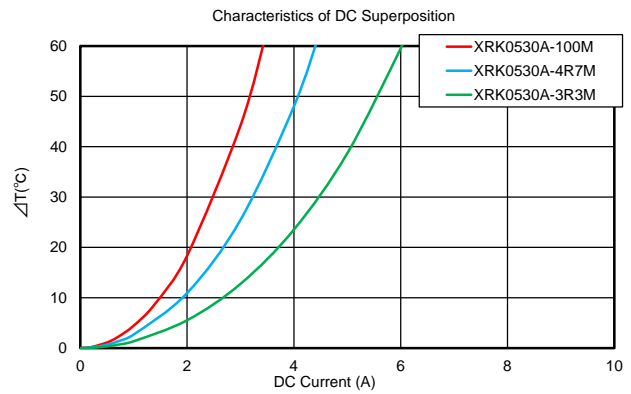
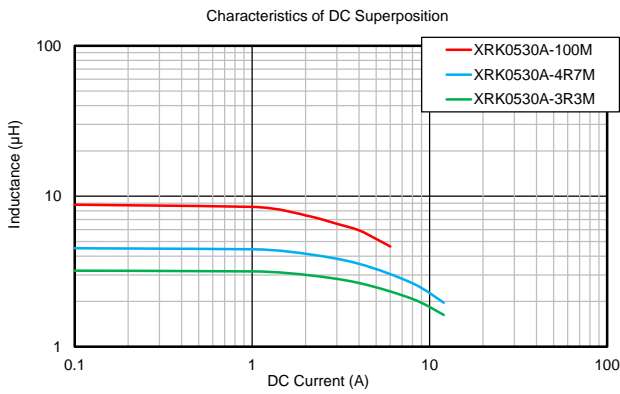
Tolerance	XRK0530A	XRK0730A	XRK1040A	XRK1365A
±20%(M)	0.2~10μH	0.15~33μH	0.2~100μH	0.22~56μH

### Parts Code 品番コード例

XRK0530A	—	100	M
Type タイプ		Inductance Code インダクタンスコード	Tolerance 許容差



## ■XRK series



Notes: Graphs are based on typical values of each type, not specific values.

記事：特性グラフは各タイプの代表値を基に作成しています。規格値ではありません。



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