



EN: This Datasheet/Document is presented by the manufacturer.

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1、订货代码 HOW TO ORDER

举例 For example

XR	0307	—	220	K	P	52	E
↓	↓		↓	↓	↓	↓	↓
A	B		C	D	E	F	G

产 品 类 别 Product type	
XR	轴向色码电感器 Axial color code inductor

C:

标称电感量 Nominal inductance (μH)
前两位数字为有效数字，后一位数字表示零的个数。

The first two digits are significant, and the third digit is number of zero.

* 例如 For example : 101=100μH ;
5R6=5.6μH R22=0.22μ H

E:

包 装 方 式 Packaging style		
编带 Tape & reel	P	盒带包装 Ammo
	T	卷带包装 Reel
散包装 Bulk	F	直脚轴向 Axial
	L	直脚成型 Straight lead formed
	V	弯脚成型 Bent lead formed
	VK	弯脚 K 型 Bent lead K formed

G:

备 注 Remark	
E	无铅 Lead Free
空格 Blank	含铅 Lead Contained



B:

尺 寸 Dimensions (mm)		
类型 Type	外径 D _{max}	体长 L _{max}
0204	2.3	4.2
0307	2.8	7.0
0410	4.0	10.5
0510	5.0	10.5

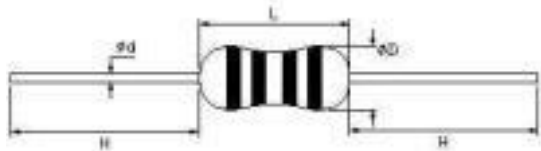
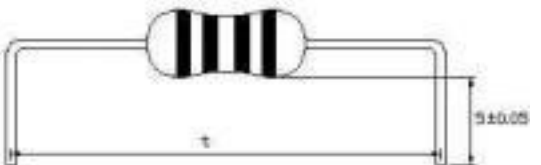
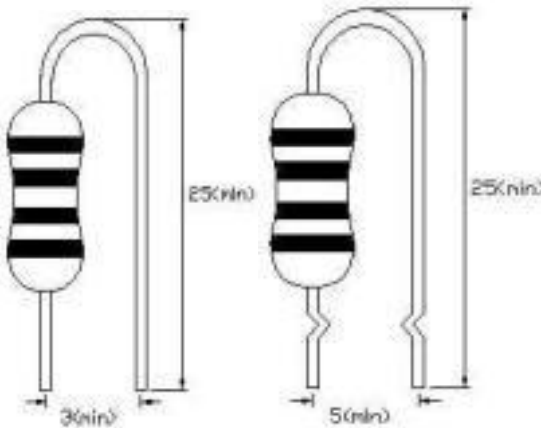
D:

感量偏差 Tolerance	
J	±5.0%
K	±10%
M	±20%

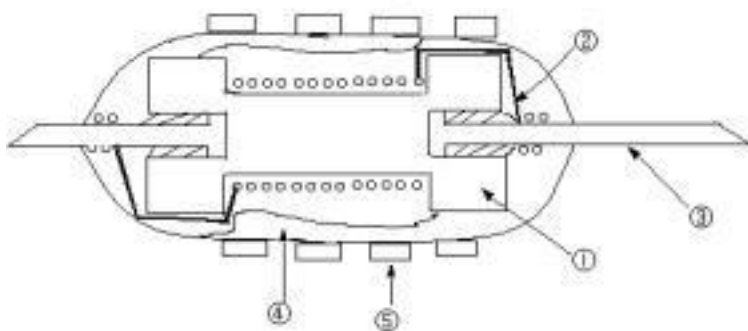
F :

引 脚 形 式 Lead configuration		
编带 Tape & reel	26	编带内距 : 26mm Tape width:
	52	编带内距 : 52mm Tape width:
引脚成型 Formed lead	05	引脚脚距 : 5.08mm Formed lead pitch:
	07	引脚脚距 : 7.5mm Formed lead pitch:
	10	引脚脚距 : 10.0mm Formed lead pitch:
	12	引脚脚距 : 12.5mm Formed lead pitch:
	15	引脚脚距 : 15.0mm Formed lead pitch:
	17	引脚脚距 : 17.5mm Formed lead pitch:
	20	引脚脚距 : 20.0mm Formed lead pitch:

2、外形尺寸 EXTERNAL DIMENSIONS

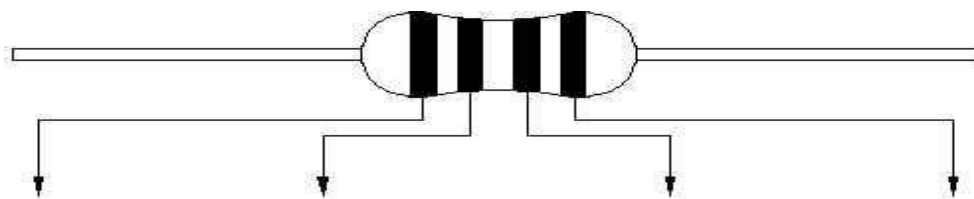
类型 Type	尺寸 Body size (mm)					
	$\phi D \leq$	$L \leq$	t	ϕd	$H \geq$	
XR0204	2.3	4.2	$t = 5.08 \pm 0.6$ $t = 7.50 \pm 0.6$	0.50 ± 0.05	20	 轴向 (Axial) 
XR0307	2.8	7.0	$t = 10.0 \pm 0.6$ $t = 12.5 \pm 0.6$	0.50 ± 0.05		
XR0410	4.0	10.5	$t = 12.5 \pm 0.6$ $t = 15.0 \pm 0.6$ $t = 17.5 \pm 0.6$ $t = 20.0 \pm 0.6$	0.60 ± 0.05		直脚成型 (L type)  弯脚成型 (V type) 弯脚 K 型 (VK type)
XR0510	5.0	10.5	$t = 15.0 \pm 0.6$ $t = 17.5 \pm 0.6$ $t = 20.0 \pm 0.6$	0.65 ± 0.05		

3、产品结构 STRUCTURE



序号 NO.	① 磁 芯 Core	② 漆包线 Wire	③ 引脚 Lead	④ 涂覆层 Coating	⑤ 色码 Color code
材料名称 Material name	铁氧体 Ferrite	漆包铜线 Enamelled wire	镀锡铜线 Tinned copper wire	环氧树脂 Epoxy resin	环氧色漆 Epoxy paint for Color coding

4、色码标记代号 MARKING



	标称电感量 Nominal inductance (μH)			感量偏差 Tolerance
	第一色环 1 st color zone	第二色环 2 nd color zone	第三色环 3 rd color zone	第四色环 4 th color zone
	第一数字 1 st digit	第二数字 2 nd digit	第三数字 3 rd digit	
黑 Black	0	0	$\times 10^0 (1)$	M : $\pm 20\%$
棕 Brown	1	1	$\times 10^1 (10)$	
红 Red	2	2	$\times 10^2 (100)$	
橙 Orange	3	3	$\times 10^3 (1000)$	
黄 Yellow	4	4	$\times 10^4 (10000)$	
绿 Green	5	5	$\times 10^5 (100000)$	
蓝 Blue	6	6		
紫 Purple	7	7		
灰 Gray	8	8		
白 White	9	9		
金 Gold	/	/	$\times 10^{-1} (0.1)$	J : $\pm 5\%$
银 Silver	/	/	$\times 10^{-2} (0.01)$	K : $\pm 10\%$

*例如 e.g. :

标称电感量及偏差为 22 μH , $\pm 5\%$ 的电感器其色码为：红+红+黑+金；

If nominal inductance & tolerance is 22 μH , $\pm 5\%$, respectively red+red+black+gold should be marked;

标称电感量及偏差为 1.0 μH , $\pm 10\%$ 的电感器其色码为：棕+黑+金+银；

If nominal inductance & tolerance is 1.0 μH , $\pm 10\%$, respectively brown+black+gold+silver should be marked;

标称电感量及偏差为 0.22 μH , $\pm 20\%$ 的电感器其色码为：红+红+银+黑。

If nominal inductance & tolerance is 0.22 μH , $\pm 20\%$, respectively red+red+silver+black should be marked.

备注：XR0204 由于体长较小，只标注前三条代表标称电感量的色码。

NOTE: Only the first three color zones are marked on the body of XR0204, due to the small body size.

5、电性能参数及测试条件

ELECTRICAL CHARACTERISTICS & TEST CONDITIONS

XR0204 型电感器电性能参数及测试条件

XR0204 TYPE INDUCTORS ELECTRICAL CHARACTERISTICS & TEST CONDITIONS

XR0204 类型 Type	电感量 Inductance (μH)	误 差 Tolerance	Q (min)	直流电阻 RDC (Ω) max	测试频率 Test frequency (MHz)	自谐频率 SRF (MHz) min	额定电流 Rated current I _{dc} (mA) max
XR0204-R22	0.22	M : ±20%	35	0.40	25.2	150	400
XR0204-R27	0.27			0.43			380
XR0204-R33	0.33			0.48			370
XR0204-R39	0.39			0.51			350
XR0204-R47	0.47			0.56			330
XR0204-R56	0.56			0.61			320
XR0204-R68	0.68			0.67			310
XR0204-R82	0.82			0.74			290
XR0204-1R0	1.0			0.80			270
XR0204-1R2	1.2	K : ±10%	40	0.90	7.96	110	260
XR0204-1R5	1.5			1.0		80	250
XR0204-1R8	1.8			1.1		60	240
XR0204-2R2	2.2			1.2		45	230
XR0204-2R7	2.7			1.3		40	220
XR0204-3R3	3.3			1.4		38	210
XR0204-3R9	3.9			1.6		35	200
XR0204-4R7	4.7			1.7		32	190
XR0204-5R6	5.6			1.9		30	180
XR0204-6R8	6.8			2.0	28	175	
XR0204-8R2	8.2			2.2	26	165	
XR0204-100	10			2.5	24	160	
XR0204-120	12			2.5	22	150	
XR0204-150	15			2.8	20	145	
XR0204-180	18			3.1	18	140	
XR0204-220	22			3.4	17	130	
XR0204-270	27			4.3	16	80	
XR0204-330	33			4.7	14	76	
XR0204-390	39			3.9	13	73	
XR0204-470	47	J : ±5%	2.52	5.8	12	70	
XR0204-560	56			6.4	11	68	
XR0204-680	68			7.2	10	64	
XR0204-820	82			11.0	9.5	46	
XR0204-101	100			12.0	9.0	44	
XR0204-121	120			13.0	8.0	42	
XR0204-151	150			16.0	6.0	39	
XR0204-181	180			18.0	5.5	37	
XR0204-221	220			20.0	5.0	35	
测试仪器 Test equipment	HP4285A (HP4286A , HP4287A)			HP4338B		HM9461	HP42841A
环境温度 Ambient temperature	18 ~ 25℃						
环境湿度 Ambient humidity	45%~75%						

特殊要求的产品可以根据客户要求生产

The products can be customized according to customer requirement.

XR0307 型电感器电性能参数及测试条件
 XR0307 TYPE INDUCTORS ELECTRICAL CHARACTERISTICS & TEST CONDITIONS

XR0307 类型 Type	电感量 Inductance (μH)	误差 Tolerance	Q (min)	直流电阻 RDC (Ω) max	测试频率 Test frequency (MHz)	自谐频率 SRF (MHz) min	额定电流 Rated current I _{bc} (mA) max	
XR0307-R22	0.22	M : ±20%	35	0.40	25.2	150	400	
XR0307-R27	0.27			0.43			380	
XR0307-R33	0.33			0.48			370	
XR0307-R39	0.39			0.51			350	
XR0307-R47	0.47			0.56			330	
XR0307-R56	0.56		40	0.61			320	
XR0307-R68	0.68			0.67			310	
XR0307-R82	0.82			0.74			290	
XR0307-1R0	1.0			0.80			270	
XR0307-1R2	1.2			K : ±10%			50	0.90
XR0307-1R5	1.5		1.0		131	250		
XR0307-1R8	1.8		1.1		121	240		
XR0307-2R2	2.2		1.2		110	230		
XR0307-2R7	2.7		1.3		100	220		
XR0307-3R3	3.3		1.4		94	210		
XR0307-3R9	3.9		1.6		65	200		
XR0307-4R7	4.7		1.7		56	190		
XR0307-5R6	5.6		1.9		48	180		
XR0307-6R8	6.8		2.0		37	175		
XR0307-8R2	8.2		2.2		25	165		
XR0307-100	10	2.5	21		160			
XR0307-120	12	2.5	2.52		19	150		
XR0307-150	15	2.8			17	145		
XR0307-180	18	3.1			13	140		
XR0307-220	22	3.4			9.6	130		
XR0307-270	27	3.8			7.2	125		
XR0307-330	33	4.1			6.3	120		
XR0307-390	39	4.5			6.3	115		
XR0307-470	47	4.9			6.3	110		
XR0307-560	56	5.3		6.2	105			
XR0307-680	68	5.8		5.7	100			
XR0307-820	82	6.3	5.3	95				
XR0307-101	100	7.0	4.8	90				
XR0307-121	120	J : ±5%	0.796	13.0	3.8	90		
XR0307-151	150			15.0	3.5	85		
XR0307-181	180			16.0	3.3	80		
XR0307-221	220			17.0	3.0	75		
XR0307-271	270			19.0	2.8	65		
XR0307-331	330			20.0	2.6	60		
XR0307-391	390			22.0	2.4	55		
XR0307-471	470			24.0	2.25	55		
XR0307-561	560			26.0	2.10	50		
XR0307-681	680			28.0	1.95	45		
XR0307-821	820	30.0	1.85	40				
XR0307-102	1000		33.0	1.40	40			
测试仪器 Test equipment	HP4285A (HP4286A , HP4287A)			HP4338B		HM9461	HP42841A	
环境温度 Ambient temperature	18 ~ 25℃							
环境湿度 Ambient humidity	45%~75%							

特殊要求的产品可以根据客户要求生产
 The products can be customized according to customer requirement.

XR0410 型电感器电性能参数及测试条件

XR0410 TYPE INDUCTORS ELECTRICAL CHARACTERISTICS & TEST CONDITIONS

XR0410 类型 Type	电感量 Inductance (μH)	误 差 Tolerance	Q (min)	直流电阻 RDC (Ω) max	测试频率 Test frequency (MHz)	自谐频率 SRF (MHz) min	额定电流 Rated current I _{DC} (mA) max
XR0410-R22	0.22	M : ±20%	45	0.10	25.2	300	1400
XR0410-R27	0.27		45	0.11		270	1320
XR0410-R33	0.33		45	0.12		250	1280
XR0410-R39	0.39		45	0.13		230	1200
XR0410-R47	0.47		45	0.14		220	1150
XR0410-R56	0.56		45	0.15		200	1122
XR0410-R68	0.68		45	0.16		190	1030
XR0410-R82	0.82		45	0.17		172	980
XR0410-1R0	1.0		45	0.19		157	920
XR0410-1R2	1.2		K : ±10%	50		0.21	7.96
XR0410-1R5	1.5	50		0.23	131	830	
XR0410-1R8	1.8	55		0.25	121	790	
XR0410-2R2	2.2	55		0.28	110	750	
XR0410-2R7	2.7	60		0.30	100	720	
XR0410-3R3	3.3	65		0.34	94	670	
XR0410-3R9	3.9	65		0.37	65	640	
XR0410-4R7	4.7	70		0.39	56	620	
XR0410-5R6	5.6	70		0.43	48	590	
XR0410-6R8	6.8	75		0.48	37	550	
XR0410-8R2	8.2	J : ±5%	80	0.52	2.52	25	530
XR0410-100	10		65	0.58		21	500
XR0410-120	12		50	0.63		19	480
XR0410-150	15		50	0.72		17	460
XR0410-180	18		50	0.77		13	430
XR0410-220	22		50	0.84		9.6	410
XR0410-270	27		55	0.94		7.2	390
XR0410-330	33		55	1.03		6.3	370
XR0410-390	39		50	1.12		6.3	350
XR0410-470	47		45	1.22		6.3	340
XR0410-560	56	40	1.34	6.2	320		
XR0410-680	68	40	1.47	5.7	305		
XR0410-820	82	35	1.62	5.3	290		
XR0410-101	100		30	1.80	0.796	4.8	275
XR0410-121	120		55	3.70		3.8	185
XR0410-151	150		45	4.20		3.5	175
XR0410-181	180		50	4.60		3.3	165
XR0410-221	220		55	5.10		3.0	155
XR0410-271	270		65	5.80		2.8	145
XR0410-331	330		65	6.40		2.6	137
XR0410-391	390		65	7.00		2.4	133
XR0410-471	470		60	7.70		2.25	126
XR0410-561	560		60	8.50		2.10	120
XR0410-681	680	55	9.40	1.95	113		
XR0410-821	820	55	10.50	1.85	105		
XR0410-102	1000		50	14.00	0.252	1.40	100
XR0410-152	1500		30	25.00		1.10	85
XR0410-222	2200		30	35.00		0.80	75
测试仪器 Test equipment	HP4285A (HP4286A ,HP4287A)			HP4338B		HM9461	HP42841A
环境温度 Ambient temperature	18 ~ 25℃						
环境湿度 Ambient humidity	45%~75%						

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The products can be customized according to customer requiremen

XR0510 型电感器电性能参数及测试条件

XR0510 TYPE INDUCTORS ELECTRICAL CHARACTERISTICS & TEST CONDITIONS

XR0510 类型 Type	电感量 Inductance (μH)	误 差 Tolerance	Q (min)	直流电阻 RDC (Ω) max	测试频率 Test frequency (MHz)	自谐频率 SRF (MHz) min	额定电流 Rated current I _{DC} (mA) max
XR0510-2R2	2.2	M: ±20%	10	0.26	7.96	50	2100
XR0510-3R3	3.3		10	0.3		50	1800
XR0510-3R9	3.9		10	0.35		50	1500
XR0510-4R7	4.7		20	0.43		50	900
XR0510-6R8	6.8		15	0.45		45	850
XR0510-100	10		15	0.45		30	750
XR0510-120	12		30	0.6		30	700
XR0510-150	15		30	0.65		30	650
XR0510-180	18		30	0.65		30	600
XR0510-220	22		K: ±10%	30	0.65	2.52	8
XR0510-270	27	30		0.65	7		500
XR0510-330	33	30		0.65	6		470
XR0510-390	39	30		0.65	6		460
XR0510-470	47	30		0.8	5		430
XR0510-560	56	30		0.8	5		430
XR0510-680	68	30		0.8	4.5		430
XR0510-820	82	30		0.82	3.8		430
XR0510-101	100	30		0.9	3.5		400
XR0510-121	120	J: ±5%		30	0.92	0.796	3.3
XR0510-151	150		30	0.92	3.2		390
XR0510-181	180		30	0.94	2.8		390
XR0510-221	220		30	0.94	2.6		380
XR0510-271	270		30	1	2.4		380
XR0510-331	330		30	1.11	2.2		380
XR0510-391	390		30	1.12	2		350
XR0510-471	470		45	1.22	1.9		340
XR0510-561	560		40	1.34	1.8		320
XR0510-681	680		40	1.47	1.5	305	
XR0510-821	820		35	1.62	0.252	1.3	290
XR0510-102	1000		45	14		1	100
XR0510-122	1200		40	16.9		0.95	95
XR0510-152	1500		40	21.6		0.9	90
XR0510-182	1800		40	24		0.85	85
XR0510-222	2200		40	34.7		0.8	80
XR0510-272	2700		40	40		0.75	75
XR0510-332	3300		40	59.5		0.7	62
XR0510-392	3900		40	66		0.65	59
XR0510-472	4700		40	74	0.6	55	
XR0510-562	5600		30	80	0.0796	0.5	40
XR0510-682	6800		30	85		0.45	35
XR0510-822	8200		30	95		0.4	30
XR0510-103	10000		50	14		1.4	100
测试仪器 Test equipment	HP4285A (HP4286A ,HP4287A)			HP4338B		HM9461	HP42841A
环境温度 Ambient temperature	18 ~ 25℃						
环境湿度 Ambient humidity	45%~75%						

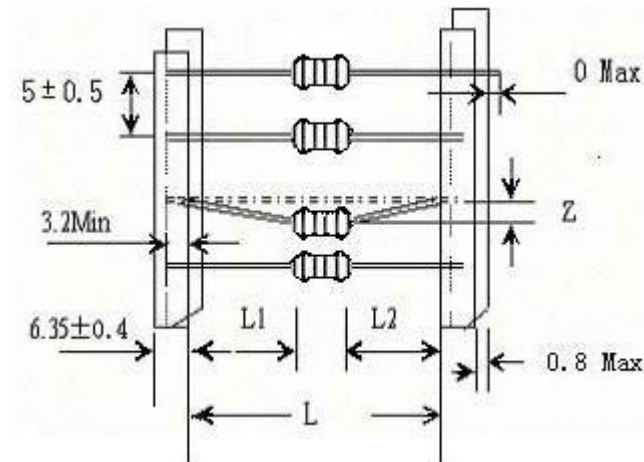
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6、包装方式 PACKAGING STYLE

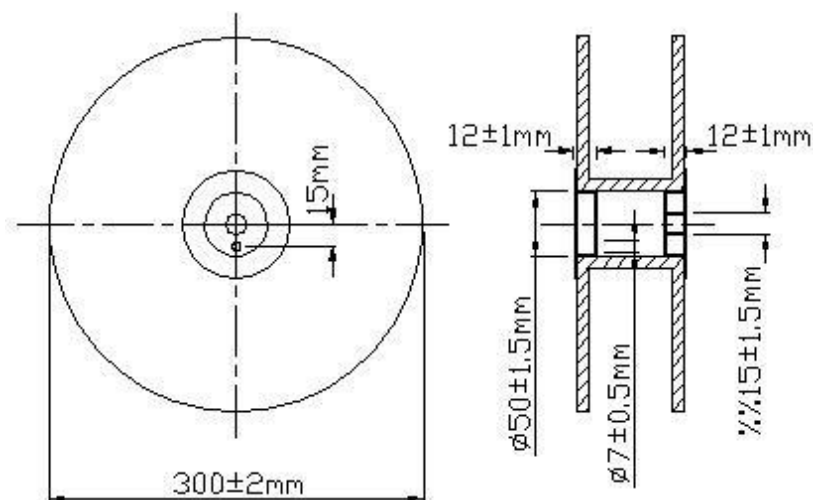
● 编带尺寸 Taping dimensions

单位 Unit : mm

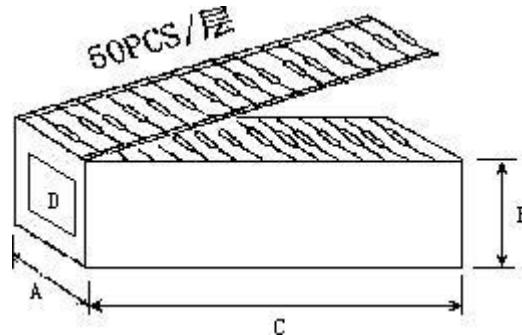


编带方式 Tape style	L	Z	■ L1-L2 ■
编带内距:26 Tape width	26±1.0	0.8 Max	1.0 Max
编带内距:52 Tape width	52 ^{+2.0} _{-1.0}	1.2 Max	

● 卷带包装尺寸 Tape & reel packaging dimensions



● 盒带包装尺寸 Ammo packaging dimensions



● 包装盒尺寸 Dimensions of box

单位 Unit : mm

编带类型 Tape type	尺寸 Dimensions (±5mm)		
	A	B	C
52	75	82	260
26	50	82	260

● 包装数量 Packaging quantity

包装方式 Packaging style	盒带包装 Ammo	卷带包装 Tape & reel	散包装 Bulk
包装数量 Quantity	2000	2000	1000

可根据用户需求包装

Packaging according to customer's requirement