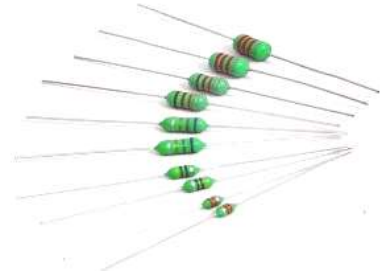


● FEATURES

1. Design to be compact, small and light-weight, wide range of inductance.
感量范围宽，尺寸小，重量轻。
2. Contribute to be high Q and self-resonant frequencies, tapping type that is convenient for automatic insertion, coating epoxy resin that ensure the humidity resistance to be long life.

高Q和SRF值，卷装适用于自动插件，使用寿命长。



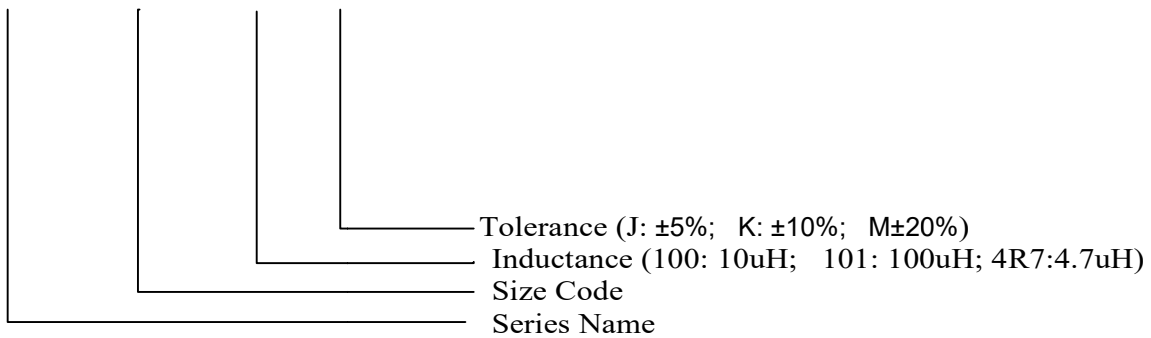
● APPLICATIONS

For TV, radios and radio transceivers, telephones. 用于TV、音响，收音机，电话机。

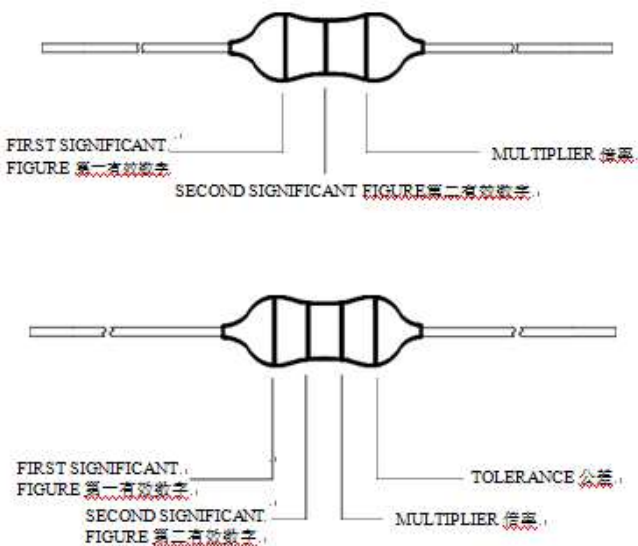
Others various electronic products. 用其他各种电子产品上。

● PART NUMBERING SYSTEM

WTAL 0307- 102 K



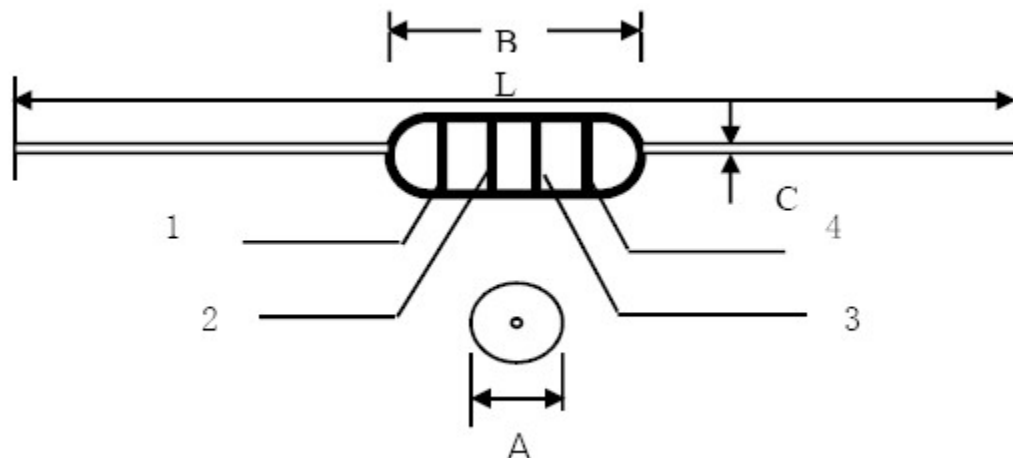
● Color Coding 颜色编码



The nominal inductance is marked. Color code listed in table below. 标称电感值用色码编码表示如下表所示。

Color 颜色	Nominal Inductance(uH)标称电感值(微亨)			
	1st Figure	2nd Figure	Multiplier	Tolerance
Black 黑	0		×1	±20%
Brown 棕	1		×10	—
Red 红	2		×100	—
Orange 橙	3		×1000	—
Yellow 黄	4		—	—
Green 绿	5		—	—
Blue 蓝	6		—	—
Violet 紫	7		—	—
Gray 灰	8		—	—
White 白	9		—	—
Gold 金	—		×0.1	±5%
Silver 银	—		×0.01	±10%

● SHAPES AND DIMENSIONS (Unit: m/m)



Series	Dimensions (mm)			
	A Max.	B Max.	C Ref.	L Ref.
WTAL0307	3.2	7.0	0.50	62
WTAL0410	4.0	11.0	0.55	62
WTAL0510	5.0	11.0	0.60	62
WTAL0512	5.0	12.0	0.60	62
WTAL0514	5.0	15.0	0.65	62

Note: Size C depends on the actual situation.

● Electrical Characteristics 电气特性

- (1) Isat: DC current at which the inductance drops approximate 10% from its value without current;
- (2) Irms: DC current that causes the temperature rise ($\Delta T \leq 40^{\circ}\text{C}$) from 25°C ambient.
- (3) Rated Current: It is either the inductance is 10% lower than its initial value in DC saturation characteristics or temperature raise becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$), whichever is lower.
- (4) Operating Temperature Ranges: $-25 \sim 85^{\circ}\text{C}$.
- (5) Dielectric with standing voltage: 250V AC r.m.s.

● Test Equipments 测试设备

- (1) Inductance(L): HP 4284A/HM 9481/CD 1063/HP 4291A; (2) Q: HP 4284A/HM 9481;
- (3) DCR: CH 502A/CH 502BC;
- (4) SRF: HM 9461;
- (5) Rated Current/Isat./Irms.: HP 4284+HP 4284A/CD 1068+CD 1320. Test Condition: at 25°C , 75%H.

● SPECIFICATION TABLE:

WTAL0307

Part NO.	L(uH)	Q(min)	Test Freq. MHz	SRF MHz min	RDC(Ω) max.	IDC(mA) max.
WTAL0307-R15M	0.15	40.0	25.2	420	0.070	1270
WTAL0307-R22M	0.22	40.0	25.2	380	0.080	1150
WTAL0307-R33M	0.33	40.0	25.2	350	0.095	1110
WTAL0307-R47M	0.47	40.0	25.2	300	0.110	1000
WTAL0307-R68M	0.68	40.0	25.2	250	0.130	900
WTAL0307-1R0K	1.00	40.0	25.2	180	0.150	815
WTAL0307-1R5K	1.50	40.0	7.96	150	0.200	700
WTAL0307-2R2K	2.20	50.0	7.96	110	0.250	630
WTAL0307-3R3K	3.30	50.0	7.96	70	0.300	575
WTAL0307-4R7K	4.70	50.0	7.96	50	0.350	530
WTAL0307-6R8K	6.80	50.0	7.96	30	0.450	470
WTAL0307-100K	10.0	50.0	7.96	22	0.750	370
WTAL0307-150K	15.0	50.0	2.52	16	0.930	335
WTAL0307-220K	22.0	50.0	2.52	13	1.200	285
WTAL0307-270K	27.0	50.0	2.52	11	1.800	270
WTAL0307-330K	33.0	50.0	2.52	10	2.100	255
WTAL0307-470□	47.0	50.0	2.52	8.5	2.600	205
WTAL0307-680□	68.0	50.0	2.52	6.5	3.300	185
WTAL0307-101□	100.0	50.0	2.52	5.5	4.200	165
WTAL0307-151□	150.0	60.0	0.796	5	4.700	150
WTAL0307-221□	220.0	60.0	0.796	4	6.500	130
WTAL0307-471□	470.0	60.0	0.796	2.4	12.500	90
WTAL0307-681□	680.0	60.0	0.796	2	18.000	75
WTAL0307-102□	1000.0	50.0	0.796	1.1	30.000	60

WTAL0410

Part NO.	L (uH)	Q(min)	Test Freq. MHz	SRF MHz min	RDC (Ω) max.	IDC (mA) max.
WTAL0410-R15M	0.15	25.0	25.2	420	0.070	1560
WTAL0410-R22M	0.22	25.0	25.2	380	0.080	1400
WTAL0410-R33M	0.33	25.0	25.2	300	0.100	1280
WTAL0410-R47M	0.47	25.0	25.2	250	0.130	1150
WTAL0410-R68M	0.68	25.0	25.2	210	0.150	1030
WTAL0410-1R0K	1.00	45.0	25.2	157	0.170	920
WTAL0410-1R5K	1.50	50.0	7.96	131	0.200	830
WTAL0410-2R2K	2.20	55.0	7.96	110	0.240	750
WTAL0410-3R3K	3.30	65.0	7.96	94	0.300	670
WTAL0410-4R7K	4.70	70.0	7.96	80	0.400	620
WTAL0410-6R8K	6.80	75.0	7.96	68	0.500	550
WTAL0410-100K	10.0	80.0	7.96	45	0.650	500
WTAL0410-150K	15.0	70.0	2.52	20	0.750	460
WTAL0410-220K	22.0	50.0	2.52	9.9	0.900	410
WTAL0410-270K	27.0	55.0	2.52	7.6	1.000	390
WTAL0410-330K	33.0	55.0	2.52	6.3	1.100	370
WTAL0410-470K	47.0	45.0	2.52	6.3	1.300	340
WTAL0410-680K	68.0	40.0	2.52	5.7	1.800	305
WTAL0410-101K	100.0	30.0	2.52	4.8	2.500	275
WTAL0410-221K	220.0	65.0	0.796	3.0	5.100	155
WTAL0410-331K	330.0	65.0	0.796	2.6	6.500	137
WTAL0410-471K	470.0	60.0	0.796	2.2	8.500	126
WTAL0410-681K	680.0	55.0	0.796	1.9	12.000	113
WTAL0410-102K	1000.0	50.0	0.252	1.4	20.000	85

WTAL0510

Part NO.	L(uH)	Q(min)	Test Freq. MHz	SRF MHz min	RDC(Ω) max.	IDC(mA) max.
WTAL0510-4R7□	4.7	20	7.96	50.0	0.06	900
WTAL0510-100□	10.0	15	7.96	30.0	0.45	750
WTAL0510-220□	22.0	30	2.52	8.0	0.65	450
WTAL0510-101□	100.0	20	2.52	3.5	0.75	300
WTAL0510-221□	220.0	30	0.796	2.1	2.1	180
WTAL0510-331□	330.0	30	0.796	2.2	3.0	160
WTAL0510-471□	470.0	30	0.796	1.9	4.0	140
WTAL0510-681□	680.0	40	0.796	1.5	6.0	120
WTAL0510-102□	1000.0	50	0.252	1.0	8.0	100
WTAL0510-152□	1500.0	60	0.252	0.9	16.5	90
WTAL0510-222□	2200.0	60	0.252	0.8	27.5	80
WTAL0510-332□	3300.0	50	0.252	0.7	50.0	62
WTAL0510-472□	4700.0	50	0.252	0.6	60.0	55

WTAL0512

Part NO.	L(uH)	Q(min)	Test Freq. MHz	SRF MHz min	RDC(Ω) max.	IDC(mA) max.
WTAL0512-220□	22.0	30	2.52	8.0	0.35	550
WTAL0512-101□	100.0	20	2.52	3.5	0.50	300
WTAL0512-221□	220.0	30	0.796	2.6	2.10	160
WTAL0512-331□	330.0	30	0.796	2.2	2.50	130
WTAL0512-471□	470.0	30	0.796	1.9	3.00	120
WTAL0512-681□	680.0	30	0.796	1.5	4.60	110
WTAL0512-102□	1000.0	50	0.252	1.0	5.00	100
WTAL0512-152□	1500.0	60	0.252	0.9	16.50	85
WTAL0512-222□	2200.0	60	0.252	0.8	27.50	70
WTAL0512-332□	3300.0	50	0.252	0.7	50.00	60
WTAL0512-472□	4700.0	50	0.252	0.6	60.00	50

WTAL0514

Part NO.	L(uH)	Q(min)	Test Freq. MHz	SRF MHz min	RDC(Ω) max.	IDC(mA) max.
WTAL0514-1R0□	1.0	10	7.96	300	0.022	3800
WTAL0514-1R5□	1.5	10	7.96	250	0.026	3600
WTAL0514-2R2□	2.2	10	7.96	220	0.031	2900
WTAL0514-3R3□	3.3	10	7.96	155	0.038	2600
WTAL0514-4R7□	4.7	10	7.96	85	0.044	2400
WTAL0514-6R8□	6.8	10	7.96	50	0.051	2000
WTAL0514-100□	10.0	10	7.96	24	0.062	1900
WTAL0514-220□	22.0	10	2.52	14	0.13	1550
WTAL0514-101□	100.0	10	2.52	7	0.48	700
WTAL0514-221□	220.0	15	0.796	3.8	1.25	390
WTAL0514-331□	330.0	15	0.796	3.0	2.10	310
WTAL0514-471□	470.0	15	0.796	2.5	3.22	280
WTAL0514-681□	680.0	15	0.796	2.1	4.00	240
WTAL0514-102□	1000.0	15	0.252	1.8	5.80	190
WTAL0514-152□	1500.0	15	0.252	1.5	7.80	170
WTAL0514-222□	2200.0	35	0.252	1.0	20.00	140
WTAL0514-332□	3300.0	35	0.252	0.8	27.00	120
WTAL0514-472□	4700.0	30	0.252	0.7	30.00	100