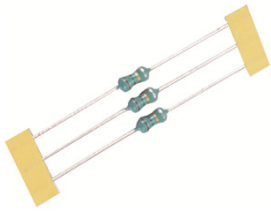


## Color ring Power Inductors -TAL Series



### TAL Series



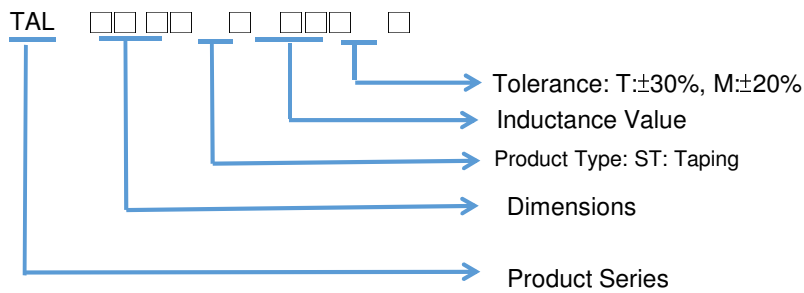
#### Description:

- RoHS, Halogen Free and REACH Compliance
- Conformal coated inductor
- Treated with epoxy resin coating makes it high reliability

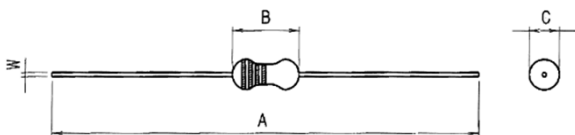
#### Applications:

- Televisions, personal computers.
- Radios, telephones.
- Others various electronic products.

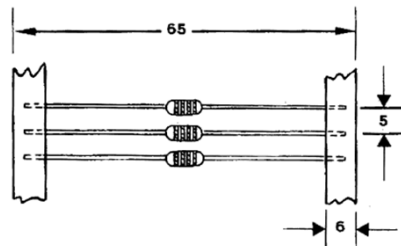
#### Product Identification



#### Dimensions-mm



#### Recommended Pad Layout



#### Dimensions-mm

TYPE	A	B	C	W( $\varphi$ )
TAL0307	52max	7.0max	3.0max	0.60

## Color ring Power Inductors -TAL Series

### Electrical Characteristics

Part No.	Inductance ( $\mu$ H)	Q MIN	L.Q Test Freq. (MHZ)	SRF(MHZ) TYP	RDC( $\Omega$ ) MAX	IDC (mA)	Tolerance ( $\pm$ %)	COLOR CODE		
								1st	2nd	3rd
TAL0307STR22M	0.22	35	25.2	150	0.2	400	20	Red	Red	Silver
TAL0307STR27M	0.27	35	25.2	150	0.22	380	20	Red	Violet	Silver
TAL0307STR33M	0.33	35	25.2	150	0.24	370	20	Orange	Orange	Silver
TAL0307STR39M	0.39	35	25.2	150	0.26	350	20	Orange	White	Silver
TAL0307STR47M	0.47	35	25.2	150	0.28	330	20	Yellow	Violet	Silver
TAL0307STR56M	0.56	35	25.2	150	0.31	320	20	Green	Blue	Silver
TAL0307STR68M	0.68	35	25.2	150	0.34	310	20	Blue	Gray	Silver
TAL0307STR82M	0.82	35	25.2	150	0.37	290	20	Gray	Red	Silver
TAL0307ST1R0K	1.0	35	25.2	150	0.4	270	10	Brown	Black	Gold
TAL0307ST1R2K	1.2	40	7.96	144	0.45	260	10	Brown	Red	Gold
TAL0307ST1R5K	1.5	40	7.96	131	0.5	250	10	Brown	Green	Gold
TAL0307ST1R8K	1.8	40	7.96	120	0.55	240	10	Brown	Gray	Gold
TAL0307ST2R2K	2.2	40	7.96	100	0.60	230	10	Red	Red	Gold
TAL0307ST2R7K	2.7	40	7.96	90	0.65	220	10	Red	Violet	Gold
TAL0307ST3R3K	3.3	40	7.96	90	0.75	210	10	Orange	Orange	Gold
TAL0307ST3R9K	3.9	40	7.96	65	0.85	200	10	Orange	White	Gold
TAL0307ST4R7K	4.7	40	7.96	56	0.90	190	10	Yellow	Violet	Gold
TAL0307ST5R6K	5.6	40	7.96	48	0.95	180	10	Green	Blue	Gold
TAL0307ST6R8K	6.8	40	7.96	32	1.10	175	10	Blue	Gray	Gold
TAL0307ST8R2K	8.2	40	7.96	25	1.20	165	10	Gray	Red	Gold
TAL0307ST100K	10	40	7.96	20	1.30	160	10	Brown	Black	Black
TAL0307ST120K	12	40	2.52	18	1.50	150	10	Brown	Red	Black
TAL0307ST150K	15	40	2.52	16	1.70	145	10	Brown	Green	Black
TAL0307ST180K	18	40	2.52	12	1.80	140	10	Brown	Gray	Black
TAL0307ST220K	22	40	2.52	10	2.00	130	10	Red	Red	Black
TAL0307ST270K	27	40	2.52	9	2.80	125	10	Red	Violet	Black
TAL0307ST330K	33	40	2.52	8	2.40	120	10	Orange	Orange	Black
TAL0307ST390K	39	40	2.52	7.5	2.70	115	10	Orange	White	Black
TAL0307ST470K	47	40	2.52	7.0	3.00	110	10	Yellow	Violet	Black
TAL0307ST560K	56	40	2.52	6.5	3.80	105	10	Green	Blue	Black
TAL0307ST680K	68	40	2.52	6.0	3.30	100	10	Blue	Gray	Black
TAL0307ST820K	82	40	2.52	5.3	3.80	95	10	Gray	Red	Black
TAL0307ST101K	100	40	2.52	4.8	4.50	90	10	Brown	Black	Brown
TAL0307ST121K	120	40	2.52	3.8	6.00	90	10	Brown	Red	Brown
TAL0307ST151K	150	40	2.52	3.5	7.00	85	10	Brown	Green	Brown
TAL0307ST181K	180	40	2.52	3.3	8.00	80	10	Brown	Gray	Brown
TAL0307ST221K	220	40	2.52	3.0	9.00	75	10	Red	Red	Brown

**Notes:**

1.tolerance  $K=\pm 10\%$  /  $M=\pm 20\%$

2.All test data is referenced to 25°C ambient.

3.Operating temperature range  $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$  (Including self - temperature rise)

4.Isat for Inductance drop 10% from its value without current.

5. Measure Equipment :

L : Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)

RDC : Chroma 16502

Idc : HP4284+42841A or WK3260B+WK3265B

6.Test Condition:

Temperature: $26\pm 3^{\circ}\text{C}$

Humidity: $<70\%$  RH