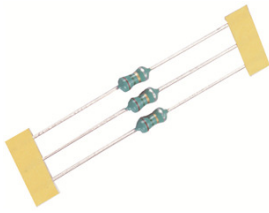


## Color ring Power Inductors -TAL Series



### TAL Series



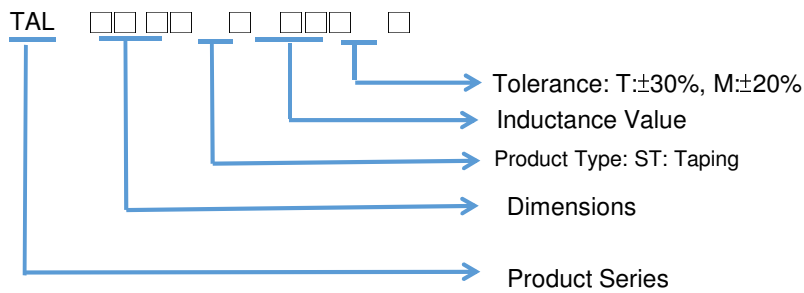
#### Description:

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

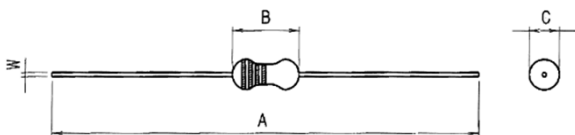
#### Applications:

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

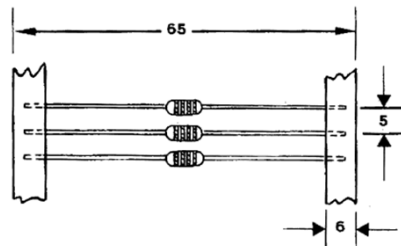
#### Product Identification



#### Dimensions-mm



#### Recommended Pad Layout



#### Dimensions-mm

TYPE	A	B	C	W( $\varphi$ )
TAL0510	52max	10.0max	5.0max	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 ( $\pm$ %)
TAL0510ST471K	470	60	0.796	1.90	7.70	126	10
TAL0510ST561K	560	50	0.796	1.80	8.50	120	10
TAL0510ST681K	680	55	0.796	1.50	9.00	113	10
TAL0510ST821K	820	45	0.796	1.20	10.5	105	10
TAL0510ST102K	1000	45	0.796	1.00	14.0	100	10
TAL0510ST122K	1200	40	0.252	0.95	16.9	95	10
TAL0510ST152K	1500	40	0.252	0.90	21.6	90	10
TAL0510ST182K	1800	40	0.252	0.85	24.0	85	10
TAL0510ST222K	2200	40	0.252	0.80	34.7	80	10
TAL0510ST272K	2700	40	0.252	0.75	40.0	75	10
TAL0510ST332K	3300	40	0.252	0.70	59.5	62	10
TAL0510ST392K	3900	40	0.252	0.65	66.0	59	10
TAL0510ST472K	4700	40	0.252	0.60	74.5	55	10
TAL0510ST562K	5600	30	0.252	0.50	80.0	40	10
TAL0510ST682K	6800	30	0.252	0.45	85.0	35	10
TAL0510ST822K	8200	30	0.252	0.40	95.0	30	10
TAL0510ST103K	10000	20	0.252	0.35	105.0	25	10

#### Notes:

- tolerance  $K=\pm 10\%$  /  $M=\pm 20\%$
- All test data is referenced to  $25^{\circ}\text{C}$  ambient.
- Operating temperature range  $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$  (Including self - temperature rise)
- $I_{sat}$  for Inductance drop 10% from its value without current.
- Measure Equipment :  
L : Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)  
RDC : Chroma 16502  
 $I_{dc}$  : HP4284+42841A or WK3260B+WK3265B
- Test Condition:  
Temperature: $26\pm 3^{\circ}\text{C}$   
Humidity: $<70\%$  RH