

# SPECIFICATION FOR APPROVAL

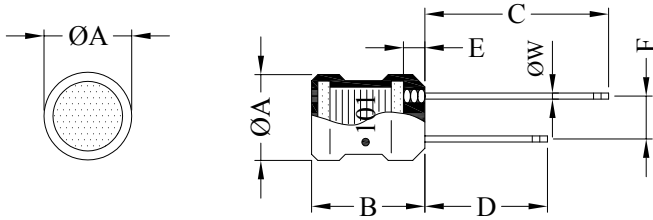
Product Name	RADIAL CHOKE COIL (LEAD FREE)	Page	1
Tai-Tech Part No.	S0506 STANDARD SERIES		

## 1. CONFIGURATION & DIMENSIONS :

MARKING :

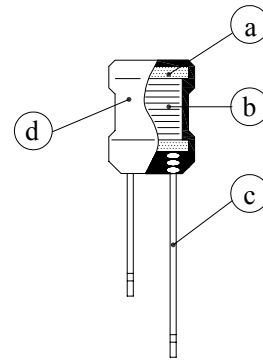
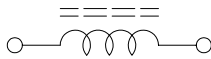
" ● " : START

● 101----100μH ( INDUCTANCE CODE )



A :	5.00±0.5	m/m
B :	6.50 <sup>+1.0</sup> <sub>-0.5</sub>	m/m
C :	20.00±5.0	m/m
D :	15.00±5.0	m/m
E :	2.50 MAX.	m/m
F :	2.00±0.50	m/m
W :	0.50±0.10	m/m

## 2. SCHEMATIC DIAGRAM :



## 3. MATERIALS :

NO.	DESCRIPTION	SPECIFICATION	REMARK
a.	CORE	DR FERRITE CORE	
b.	WIRE	ENAMELLED COPPER WIRE	
c.	LEAD	TINNED COPPER WIRE	
d.	TUBE	SHRINKABLE TUBE	

## 4. GENERAL SPECIFICATION :

- a. TEMP. RISE : 20°C MAX. AT RATED CURRENT.
- b. STORAGE TEMP. : -40°C ----- +125°C
- c. OPERATING TEMP. : -25°C ----- +105°C



**RoHS Compliant**

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## 5. ELECTRICAL CHARACTERISTICS :

PART NO.	INDUCTANCE ( $\mu$ H)	Q MIN.	TEST FREQ. ( MHz )	SRF ( MHz ) MIN.	RDC ( Ohm ) MAX.	IDC ( mA ) MAX.
S0506-1R0M1R3F	1.0 $\pm$ 20%	60	7.96	105.0	0.10	1030
S0506-1R2MR98F	1.2 $\pm$ 20%	60	7.96	90.0	0.15	980
S0506-1R5MR92F	1.5 $\pm$ 20%	60	7.96	75.0	0.20	920
S0506-1R8MR88F	1.8 $\pm$ 20%	60	7.96	70.0	0.22	880
S0506-2R2MR83F	2.2 $\pm$ 20%	60	7.96	65.0	0.24	830
S0506-2R7MR79F	2.7 $\pm$ 20%	60	7.96	60.0	0.27	790
S0506-3R3MR75F	3.3 $\pm$ 20%	60	7.96	50.0	0.30	750
S0506-3R9MR72F	3.9 $\pm$ 20%	60	7.96	45.0	0.30	720
S0506-4R7MR67F	4.7 $\pm$ 20%	60	7.96	40.0	0.35	670
S0506-5R6KR64F	5.6 $\pm$ 10%	60	7.96	35.0	0.35	640
S0506-6R8KR62F	6.8 $\pm$ 10%	60	7.96	30.0	0.40	620
S0506-8R2KR59F	8.2 $\pm$ 10%	60	7.96	25.0	0.40	590
S0506-100KR55F	10.0 $\pm$ 10%	60	2.52	20.0	0.45	550
S0506-120KR53F	12.0 $\pm$ 10%	60	2.52	15.0	0.50	530
S0506-150KR50F	15.0 $\pm$ 10%	60	2.52	13.0	0.55	500
S0506-180KR48F	18.0 $\pm$ 10%	60	2.52	11.0	0.60	480
S0506-220KR46F	22.0 $\pm$ 10%	60	2.52	10.0	0.65	460
S0506-270KR43F	27.0 $\pm$ 10%	50	2.52	9.0	0.75	430
S0506-330KR41F	33.0 $\pm$ 10%	50	2.52	8.0	0.85	410
S0506-390KR39F	39.0 $\pm$ 10%	50	2.52	7.5	0.90	390
S0506-470KR37F	47.0 $\pm$ 10%	50	2.52	7.0	1.00	370
S0506-560KR35F	56.0 $\pm$ 10%	50	2.52	6.5	1.20	350
S0506-680KR34F	68.0 $\pm$ 10%	50	2.52	6.0	1.30	340
S0506-820KR32F	82.0 $\pm$ 10%	50	2.52	5.5	1.50	320



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## 5. ELECTRICAL CHARACTERISTICS :

PART NO.	INDUCTANCE ( $\mu$ H)	Q MIN.	TEST FREQ. ( MHz )	SRF ( MHz ) MIN.	RDC ( Ohm ) MAX.	IDC ( mA ) MAX.
S0506-101KR30F	100.0 $\pm$ 10%	50	0.796	5.0	1.70	305
S0506-121KR29F	120.0 $\pm$ 10%	50	0.796	4.8	1.90	290
S0506-151KR27F	150.0 $\pm$ 10%	50	0.796	4.4	2.10	275
S0506-181KR23F	180.0 $\pm$ 10%	50	0.796	4.2	2.30	235
S0506-221KR20F	220.0 $\pm$ 10%	45	0.796	3.8	2.50	200
S0506-271KR18F	270.0 $\pm$ 10%	45	0.796	3.6	2.75	180
S0506-331KR16F	330.0 $\pm$ 10%	45	0.796	3.3	4.68	165
S0506-391KR15F	390.0 $\pm$ 10%	45	0.796	3.0	6.00	150
S0506-471KR14F	470.0 $\pm$ 10%	55	0.796	2.8	6.50	140
S0506-561KR13F	560.0 $\pm$ 10%	55	0.796	2.4	8.50	135
S0506-681KR12F	680.0 $\pm$ 10%	55	0.796	2.2	9.00	125
S0506-821KR12F	820.0 $\pm$ 10%	55	0.796	2.0	9.60	120
S0506-102KR10F	1000.0 $\pm$ 10%	55	0.252	1.8	11.50	100



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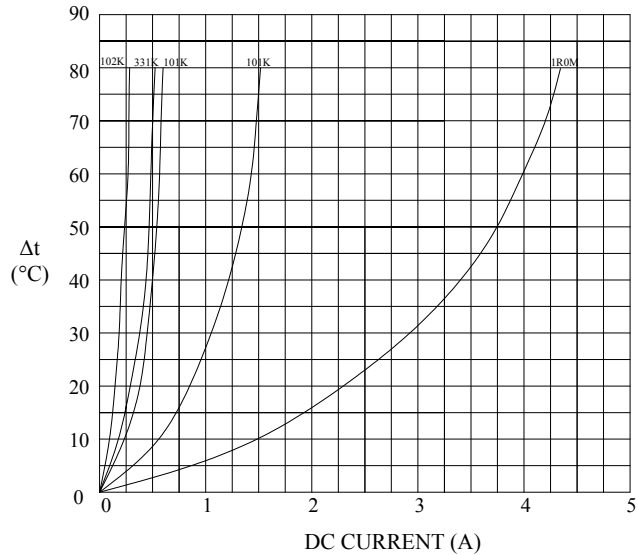
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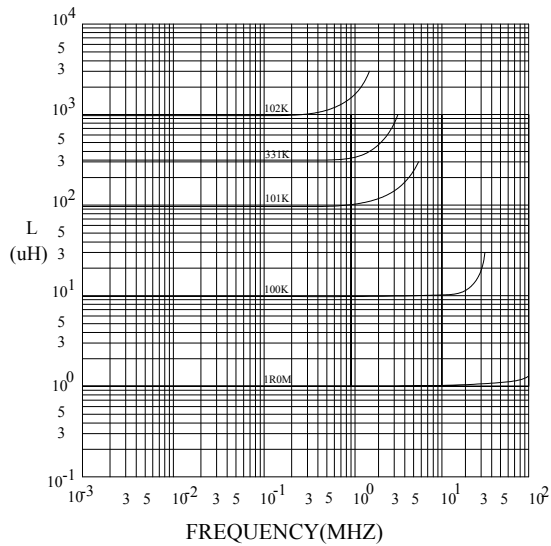
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## 6. CHARACTERISTICS CURVES :

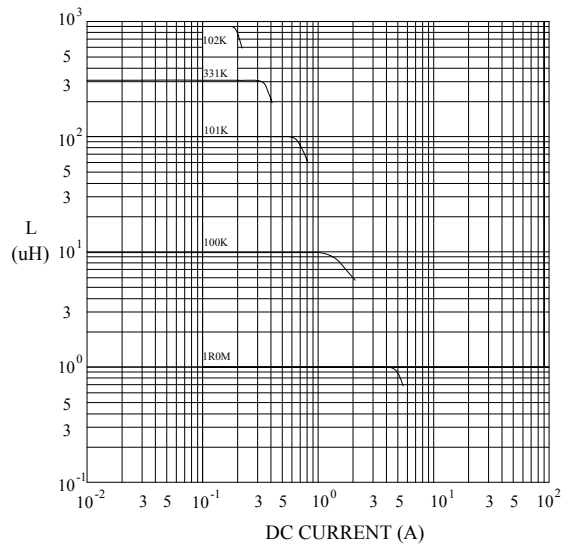
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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