

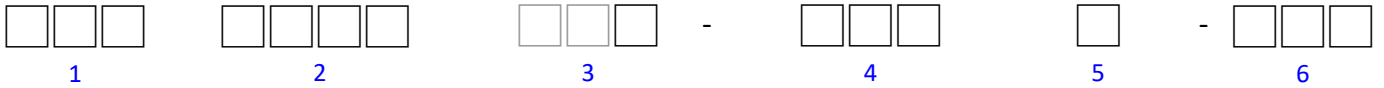
⊕ Feature

- High rated current for High current circuits.
- Low cost with rugged reliability and performance fixed inductor.

⊕ Applications

Excellent as DC-DC converter boost or buck inductors
Also used for filtering applications.

⊕ Product Identification :

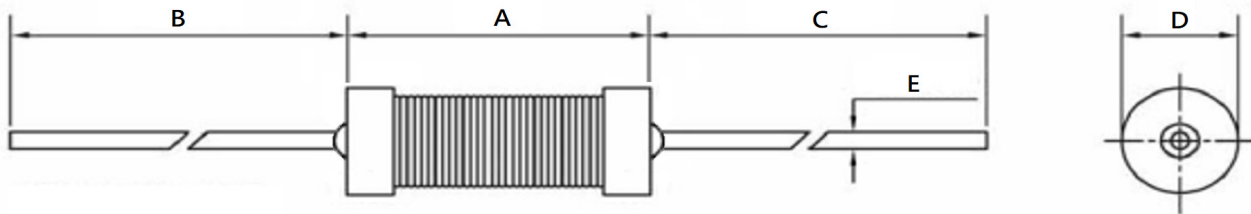


Series name	Dimensions(ODxH)	Internal code
DRL	5x12mm	L =Level
		LB=Level+Base
		S=Stand
		SB =Stand+Base
		E = PET Tube
		V = PVC Tube

Inductance		Tolerance	
1R0	1 μ H	K	10%
100	10 μ H	M	20%
101	100 μ H	N	30%
102	1000 μ H		Min

Wire
W45=0.45
:

⊕ Shapes And Dimensions

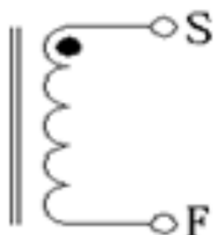


Part No.	Dimensions(mm)				
	A	B	C	D	E
DRL5x12S-150K-W45	12.0	15.0	30.0	6.50	0.60
	± 0.5	± 2.0	± 2.0	Max	± 0.05

⊕ Electrical Characteristics :

Part No.	Pin No	Turns (Ts)	Wire	L (μ H) 1KHz/0.25V	DCR (Ω)	IDC (A)	Hi-Pot (N1=N2)
DRL5x12S-150K-W45	1-2	26	2UEW-0.45	15			AC V, mA, Sec
	-	-	-	-	-	-	
	-	-	-	-	-	-	
		Ref		$\pm 10\%$	Max.	Max.	

⊕ Equivalent Circuit Schematic :



⊕ Material List :

No.	Supplier	Location	Material
1	RX	Core	DRW5x12
2	ED	Wire	N1 :2UEW,0.45mm N2 :-
3	GX	Solder	Sn99.3 Cu0.7
4	SL	TUBE	ϕ 4x12mm

1.Operating temperature -25 $^{\circ}$ C ~ +85 $^{\circ}$ C

2.Storage conditions -25 $^{\circ}$ C ~ +85 $^{\circ}$ C

TEST DATA FOR PREPRODUCTION SAMPLES

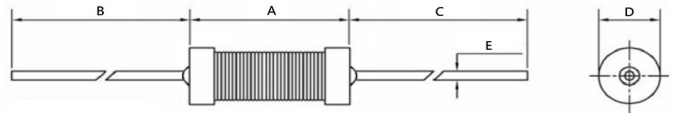
Customer		Test Date	2018-8-8		
RSiN Part No.	DRL5x12S-150K-W45	Sample Quantity	5	PCS	
Lot No		Test Temp	25°C	Test Humidity	62%

MEAS Item	L(N1) (μH)	L(N2) (μH)	DCR (Ω)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	(mm)		
SPEC	15	-	0.000	12.00	15.00	30.00	6.50	0.60	-	-	-
Upper	16.50	-	0.000	12.50	17.00	32.00	6.50	0.65	-	-	-
Lower	13.50	-	-	11.50	13.00	28.00	-	0.55	-	-	-
Tolerance	10%	Min	Max	0.50	2.00	2.00	Max	0.05	-	-	-
Test Freq.	1KHz/0.25V	-								-	-
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
Average											
Max	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Min	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Range	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
StDevP	#DIV/0!	#DIV/0!	#DIV/0!	#####	#####	#####	#####	#####	#####	#####	#####

Test Instrument

LCR CHROMA 3302A
DCR TH283TLX+TH1901A

Configuration



Coil Spec :

Drawn by *davy* Checked by *amanda* Approved by *Vincent*