



The Presentation for

Semi-Shielded Inductor ESN-F Series Product Promotion

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1

Product Advantages and Characteristics



Advantages:

1. Semi-Shielded Inductor ESN-F Series with 16 dimensions available for wide range of applications.
2. Fully automated production provide the advantage of cost saving.

Characteristics :

1. SMD wire wound power inductor with magnetic glue coating structure, greatly reduces the noise.
2. Closed magnetic circuit structure design for less magnetic leakage and strong EMI resistance.
3. Small size and low profile save PCB space, which can be used in various applications.
4. Product operating temperature range: $-40\text{ }^{\circ}\text{C} \sim +125\text{ }^{\circ}\text{C}$

Product Applications and Appearance



Applications:

- Lighting field: small size LED lights, intelligent lighting equipment.
- Traditional home appliances: DVD, LCD TV, home audio and other audio-visual equipment.
- Communication field: mobile phones, smart PDAs, portable personal GPS equipment.
- Computer field: PC, server, laptop, tablet.
- Smart home field: DC/DC circuits of various electrical appliances in smart locks and smart home control systems.
- Security field: electronic scanners, monitoring equipment, anti-theft systems.

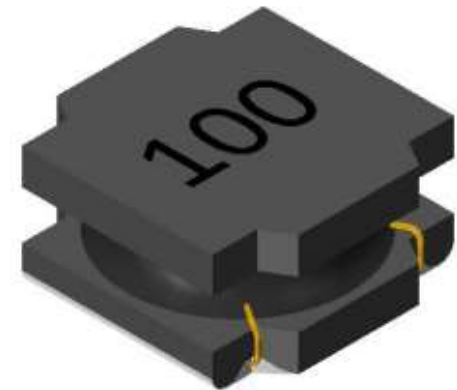
Appearance



ESN2010-F



ESN5020-F



ESN8040-F

Dimension and Electrical Characteristics



	Series	Dimension (mm)	L Value(uH)	Rated Current Isat(A)
1	ESN2010-F	2.0*1.6*1.05	0.24--22	3.70--0.32
2	ESN2510-F	2.5*2.0*1.05	0.22--22	3.60--0.40
3	ESN2512-F	2.5*2.0*1.25	0.24--22	4.10--0.45
4	ESN3010-F	3.0*3.0*1.0	1--22	1.40--0.35
5	ESN3012-F	3.0*3.0*1.2	0.33--47	3.00--0.27
6	ESN3015-F	3.0*3.0*1.5	0.24--47	4.80--0.35
7	ESN4015-F	4.0*4.0*1.65	0.50--68	6.30--0.50
8	ESN4020-F	4.0*4.0*2.1	0.33--68	7.50--0.60
9	ESN4030-F	4.0*4.0*3.0	0.47--470	7.50--0.30
10	ESN5015-F	5.0*5.0*1.5	0.22--68	7.60--0.72
11	ESN5020-F	5.0*5.0*2.2	0.22--220	8.00--0.35
12	ESN5040-F	5.0*5.0*4.0	0.24--1000	12.0--0.25
13	ESN6020-F	6.0*6.0*2.0	0.68--68	7.50--0.80
14	ESN6028-F	6.0*6.0*2.8	1--120	6.70--0.62
15	ESN6045-F	6.0*6.0*4.5	0.56--220	14.5--0.63
16	ESN8040-F	8.0*8.0*4.2	0.56--680	11.5--0.50

Isat base on $\Delta L/L0A=30\%$ max.

Product Comparison With TAIO YUDEN



Company	DWG No	Inductance (μ H)	Test Freq (Hz)	RDC(m Ω)		Isat(A) Max	Irms(A) Max
				typ	max		
TAIO YUDEN	LSXBD3030QKT2R2M	2.2 $\pm$ 20%	100K/0.25V	60	72	1.48	1.50
ABC	ESN30152R2MFB	2.2 $\pm$ 20%	100K/0.25V	60	78	1.60	1.60
TAIO YUDEN	LSXBD3030QKT150M	15 $\pm$ 20%	100K/0.25V	360	432	0.56	0.56
ABC	ESN3015150MFB	15 $\pm$ 20%	100K/0.25V	350	455	0.66	0.65
TAIO YUDEN	LSXBD6060YEL100M	10 $\pm$ 20%	100K/0.25V	47	61.1	3.00	2.50
ABC	ESN6045100MFB	10 $\pm$ 20%	100K/0.25V	52	67.6	3.00	2.50
TAIO YUDEN	LSXBD6060YEL101M	100 $\pm$ 20%	100K/0.25V	500	650	0.80	0.70
ABC	ESN6045101MFB	100 $\pm$ 20%	100K/0.25V	430	559	1.00	0.80

Conclusion

1. ABC and TAIO YUDEN are similar in DCR characteristics.
2. In terms of rated current (Isat and Irms characteristics), ABC is better than TAIO YUDEN.



THANK YOU!

Personal achievement will be realized

While company reached it's target.
