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High Current Power Inductor SIDHP-FS2818F Series 28.0mm x 19.7mm x 18.5mm

Features

- High Current Power
- Low D.C. Resistance
- Excellent Resistance to Electromagnetic Interference
- Operating Temperature -40°C ~ 125°C
- Moisture Sensitivity Level 1

Applications

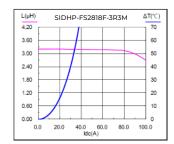
- PV Inverter, Industrial Control, New Energy
- DC/DC Converters, Motherboards, Filters
- High Current Switching Regulators
- Polyphase-Switching Regulators



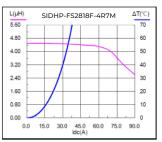
Part Numbering Guide

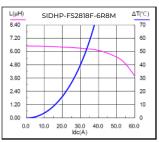
SUNTSU		S ID HP - FS 2	818F - 330 M			Tolerance M : 20%
Inductor					— Inductance	N:30%
					3R3 : 3.30	
					330 : 33.00	
Rohs	High Current			Package Size	331 : 330.00	
	Power	2818F : 28.0 x 19.7 x 18.5mm				
		Flat Wire Coil, SM	ID Туре			

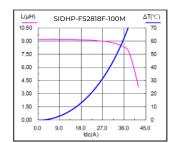
Part Number	Inductance (µH)	Tolerance	D.C.R. (mΩ) Typical	D.C.R. (mΩ) Max	Saturation Current (A) Typical	Temp. Rise Current (A) Typical
SIDHP-FS2818F-3R3M	3.30	±20%	2.15	2.58	94.0	30.0
SIDHP-FS2818F-4R7M	4.70	±20%	2.15	2.58	65.0	30.0
SIDHP-FS2818F-6R8M	6.80	±20%	2.15	2.58	48.0	30.0
SIDHP-FS2818F-100M	10.0	±20%	2.15	2.58	33.0	30.0
SIDHP-FS2818F-150M	15.0	±20%	2.15	2.58	24.0	30.0
SIDHP-FS2818F-220M	22.0	±20%	2.15	2.58	15.0	30.0
SIDHP-FS2818F-330M	33.0	±20%	2.15	2.58	10.5	30.0

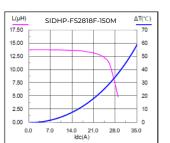


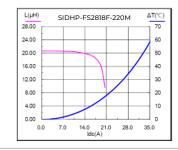
Saturation Current vs Temperature Rise Current Curve

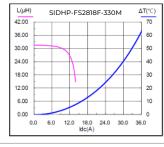












• All Data is tested based on 25°C ambient temperature.

• Inductance measure condition at 100kHz, 0.1V.

• Saturation current: The actual value of DC current when the inductance decrease 30% of its initial value.

• Temperature rise current: The actual value of DC current when the temperature rise is ∆T40°C (Ta=25°C).

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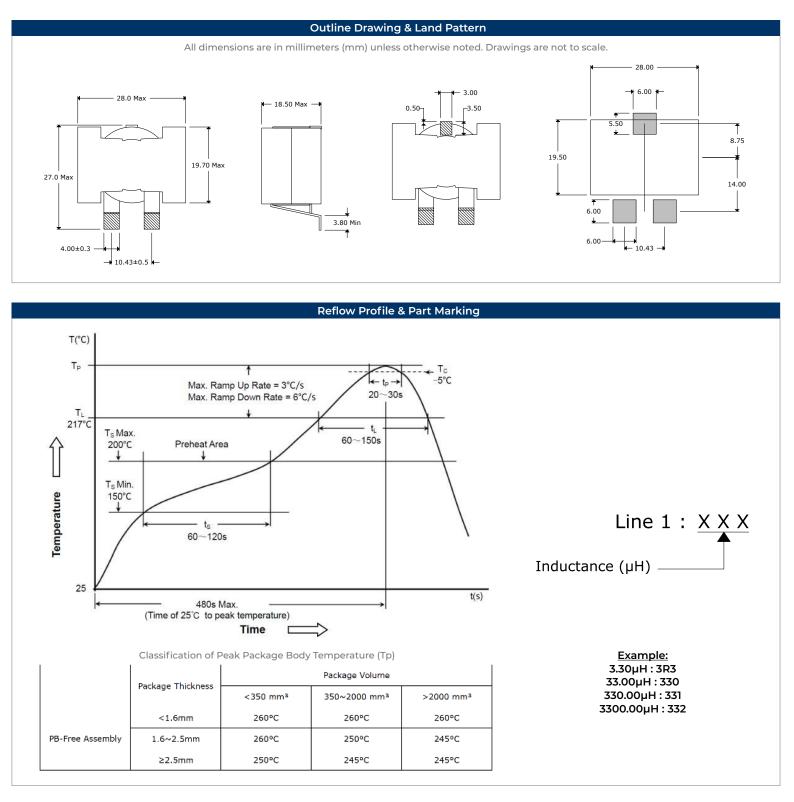
Specifications are subject to change without notice.

Suntsu Electronics, Inc. 142 TECHNOLOGY DR., SUITE 150 IRVINE, CA 92618



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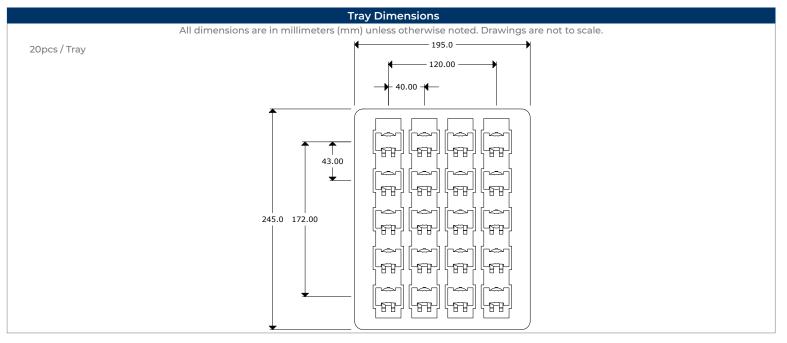
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Environmental Specifications		Mechanical Specifications		
Temperature Cycling	MIL-STD-883, Method 1010, Condition B	Mechanical Shock	MIL-STD-202, Method 213, Condition C	
Fine Leak Test	MIL-STD-883, Method 1014, Condition A	Vibration	MIL-STD-883, Method 2007, Condition A	
Gross Leak Test	MIL-STD-883, Method 1014, Condition C	Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition K	
Moisture Resistance	MIL-STD-883, Method 1004	Resistance to Solvents	MIL-STD-202, Method 215	
Moisture Sensitivity	J-STD-020, MSL 1	Solderability	MIL-STD-883, Method 2003	

Notice of Use			
1. Product in packing storage condition : temperature 5~40°C, RH ≤ 70%.	6. When this product will be used on a similar or new project to the original ine, sometimes it might be unable to satisfy the specifications due to different condition of usage.		
2. A storage of inductors longer than 12 months is not recommended. Within other effects, the terminals may suffer degradation, resulting in bad solderability. Therefore, all products shall be used within the period of 12 months based on the day of shipment.	7. This inductor itself does not have any protective function in abnormal condition, such as overload, short-circuit, open-circuit conditions, etc. Therefore, it shall be confirmed that there is no risk of smoke, fire, dielectric withstand voltage, insulation resistance, etc. or use in abnormal conditions protective devicesor protection circuit in the end product.		
3. Do not keep products in unsuitable storage conditions, such as areas susceptible to high temperatures, high humidity, dust or corrosion.	8. Hi-Pot test with higher voltage than spec will damage material and shorten its life.		
4. Always handle product with care.	9. If using in potting compund, the magnet wire coating might be damaged.		
5. Don't touch electrodes directly with bare hands as oil secretions may inhibit soldering. Always ensure optimum conditions for soldering.	10. Refrain from rinsing coils.		

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