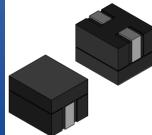


Assembly Power Inductors

**AVR-1F070605S**[Request Samples](#)[Check Inventory](#)

7.1 x 6.1 x 5.4 mm
RoHS/RoHS II Compliant
MSL Level = 1

Features

- Shielded construction
- Soft saturation
- High Power Density
- Low DCR, High Efficiency
- Perfect for multi-phased power circuitry

Applications

- Desktop/ Server applications
- High current point-of-load (POL) converters
- Lighting
- Solar inverters and power
- Industrial and robotics
- Medium and high-power switch mode power supplies.

Electrical Specifications

Part Number	Inductance	Tolerance	DC Resistance	Saturation Current (Typ)		Temperature Rise Current
				@25°C	@100°C	
Units	nH	%	mΩ ±30%	A		Typ.
Symbol	L		DCR	Isat		Irms
AVR-1F070605S90NL	90	±15%	0.17	50	45	25

Test Conditions

Isat: DC current at which the inductance drops 30% from its value without current.

Irms: DC current that causes the temperature rise (ΔT , approximate 40 °C) from 20°C ambient

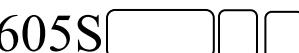
Operating Temperature: -45°C ~ +125°C (including self-temperature rise)

Storage Condition: -40°C ~ +125°C (with packaging) and R.H. <95% max

Operating Voltage: 40V (across inductor)

AVR-1F070605S Series is RoHS Compliant and Pb free

Part Identification

AVR-1F070605S**Inductance Code**

See Electrical Specification table

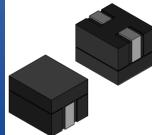
Tolerance

L: ±15%

Packaging

T: Tape and Reel (See Packaging)
Blank: Bulk

Assembly Power Inductors



AVR-1F070605S

Request Samples

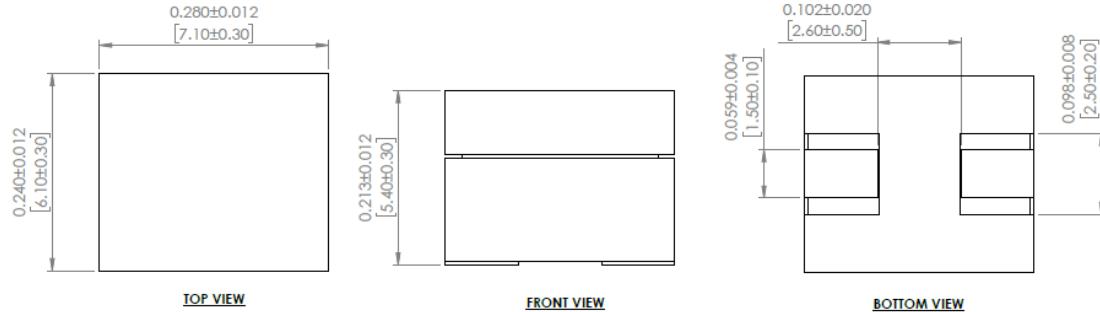


Check Inventory



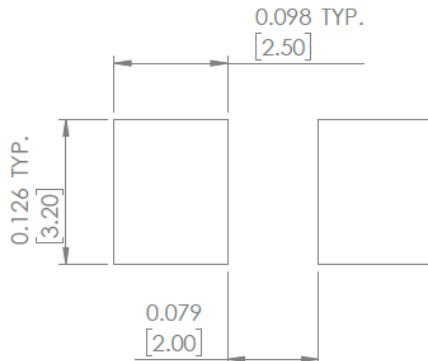
7.1 x 6.1 x 5.4 mm
RoHS/RoHS II Compliant
MSL Level = 1

Mechanical Specifications



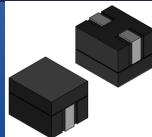
Dimensions: Inches [mm]

Recommended Land Pattern



Dimensions: Inches [mm]

Assembly Power Inductors



AVR-1F070605S

Request Samples

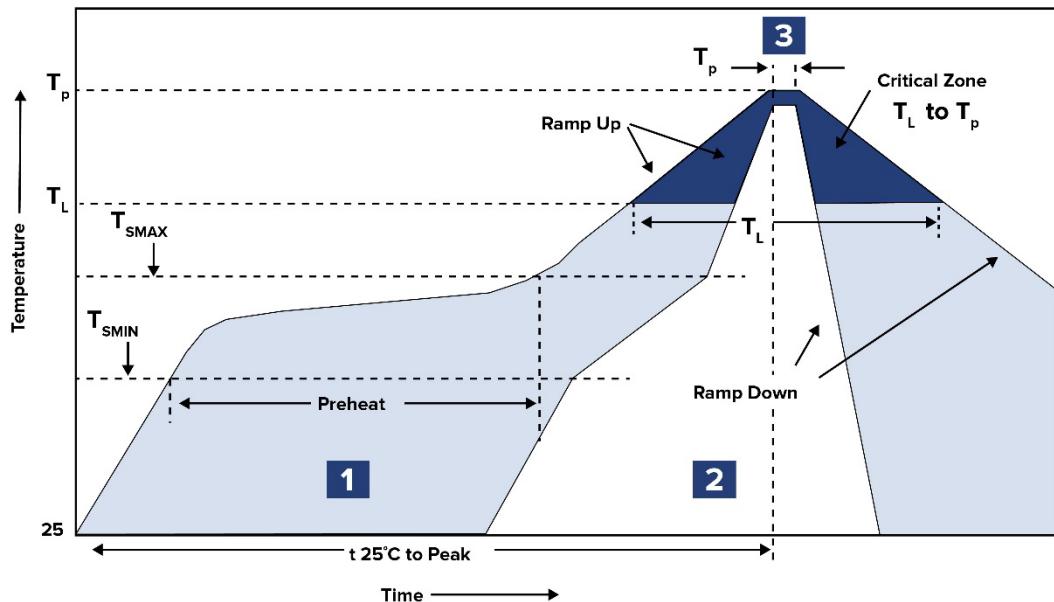


Check Inventory



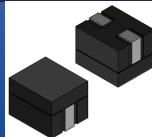
7.1 x 6.1 x 5.4 mm
RoHS/RoHS II Compliant
MSL Level = 1

Reflow Profile



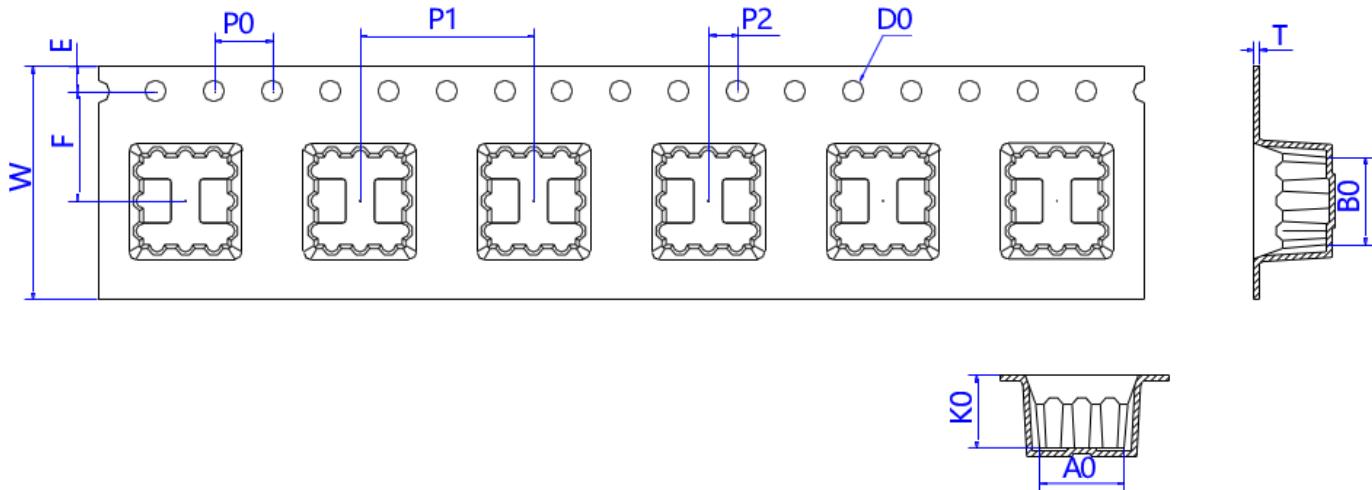
Zone	Description	Temperature	Times
1	Preheat	$T_{smin} \sim T_{smax}$ 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	T_l 217°C	60 ~ 150 sec.
3	Peak heat	T_p 260°C	5 sec. MAX

Assembly Power Inductors

**AVR-1F070605S**[Request Samples](#)[Check Inventory](#)

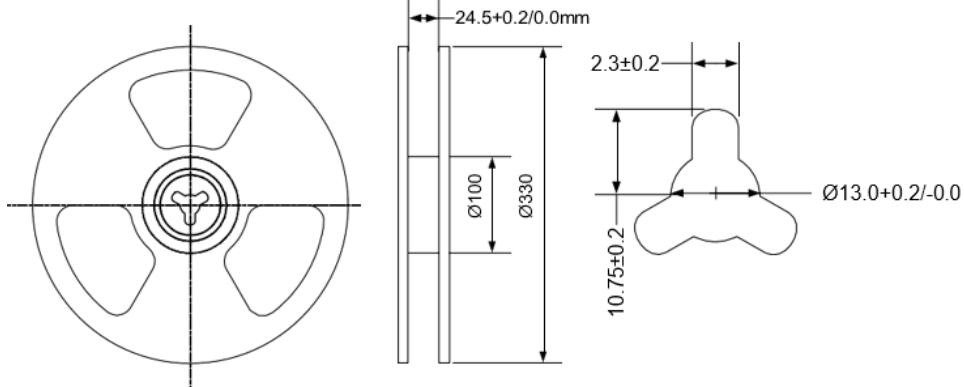
7.1 x 6.1 x 5.4 mm
RoHS/RoHS II Compliant
MSL Level = 1

Packaging

Tape & Reel: 800 pcs/reel

Series	W	E	F	P0	P1	P2	ΦD_0	A_0	B_0	T	K_0
AVR-1F070605S	24.00±0.30	1.75±0.10	11.50±0.10	4.00±0.10	12.00±0.10	2.00±0.10	1.50+0.10/0.0	6.80±0.10	7.70±0.10	0.40±0.05	6.20±0.10

Dimensions: mm



Dimensions: mm

ATTENTION: Abracon LLC's products are Commercial-Off-The-Shelf (COTS, which are designed, intended and validated for use in commercial, industrial and automotive applications. The customer is responsible for testing and verifying the performance of an Abracon solution to meet their system-level requirements.



5101 Hidden Creek Ln, Spicewood TX 78669
Phone: 512-371-6159 Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISION Initial Release :
12/2/2024

ABRACON IS
ISO9001-2015
CERTIFIED