

Low Loss, High Power Ferrite Beads



AFBC-SH0805P

Request Samples



Check Inventory



2.0 x 1.25 x 0.85 mm
RoHS/RoHS II Compliant
MSL Level = 1

Features

- Internal silver lithographic layers
- EMI suppression at High Frequencies
- Monolithic inorganic material construction
- DC resistance as low as 4mΩ
- Magnetically shielded

Applications

- Electronic control Units (ECUs)
- RF transceiver modules
- Antennas
- Infotainment system
- ADAS
- Industrial connectivity (IIoT)

Electrical Specifications

Part Number	Impedance (Typical)	DC Resistance	Rated Current
Units	$\Omega \pm 25\%$	Ω Max.	mA Max.
Symbol	Z	R _{DC}	I _R
AFBC-SH0805P-300	30	0.004	8500
AFBC-SH0805P-700	70	0.009	6000
AFBC-SH0805P-111	110	0.013	5000
AFBC-SH0805P-181	180	0.020	4000
AFBC-SH0805P-331	330	0.040	2800
AFBC-SH0805P-471	470	0.050	2500
AFBC-SH0805P-601	600	0.060	2300
AFBC-SH0805P-102	1000	0.120	1600

Test Conditions and Equipment

Z Test Frequency: 100MHz/60mV

DCR: High Accuracy LCR Meter – HP4263A

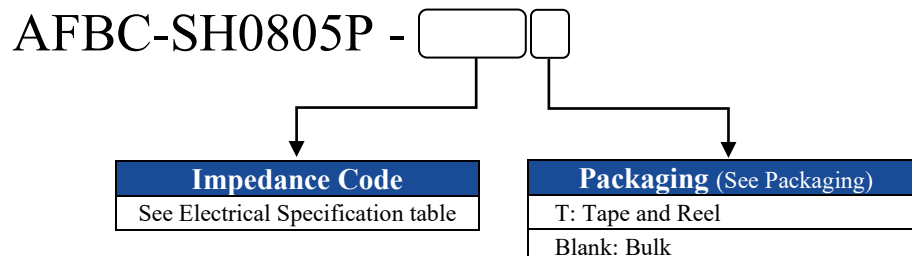
IR: Rated current applied when the chip surface temperature rise just 20°C against ambient temperature.

Operating Temperature: -55°C to +125°C (Including Self-Temperature rise)

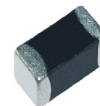
Storage Temperature: -10°C to +40°C and RH 60% (Max).

AFBC-SH0805P is **RoHS Compliant and Pb free**

Part Identification



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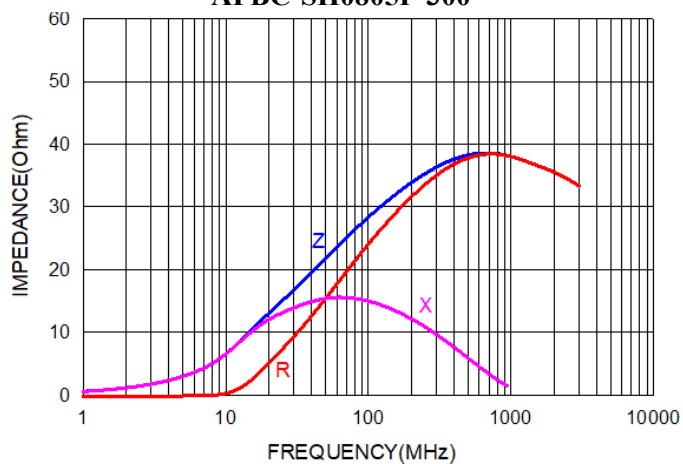
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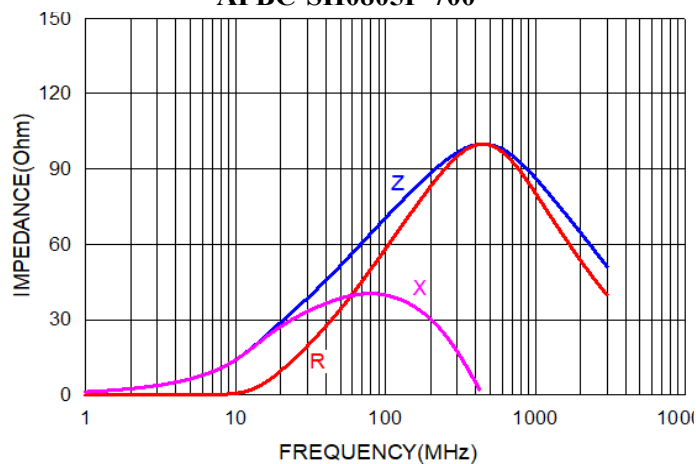
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Performance Graphs

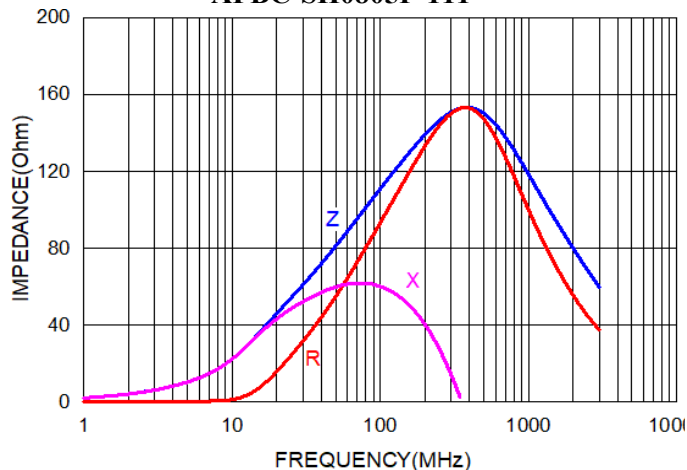
AFBC-SH0805P-300



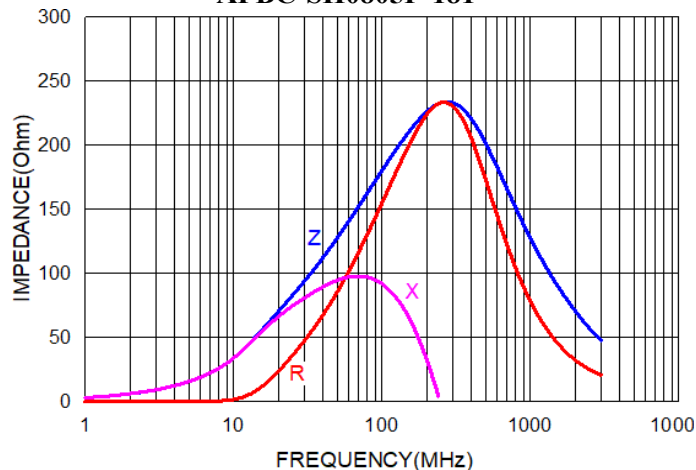
AFBC-SH0805P-700



AFBC-SH0805P-111



AFBC-SH0805P-181

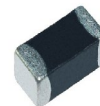


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REVISION Initial Release :
4/15/2026

ABRACON IS
ISO9001-2015
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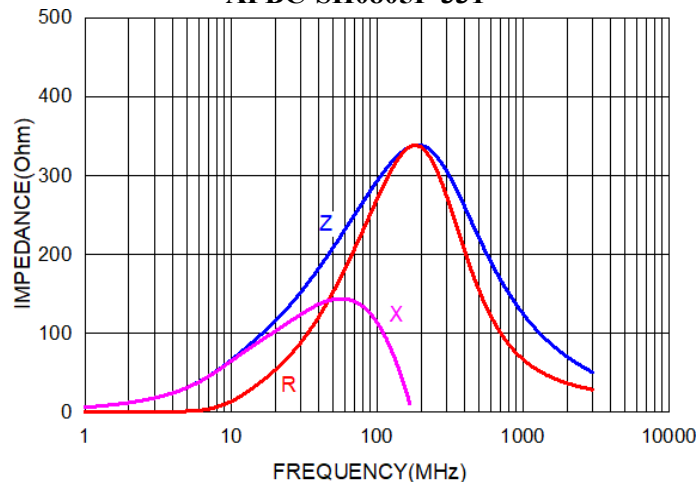


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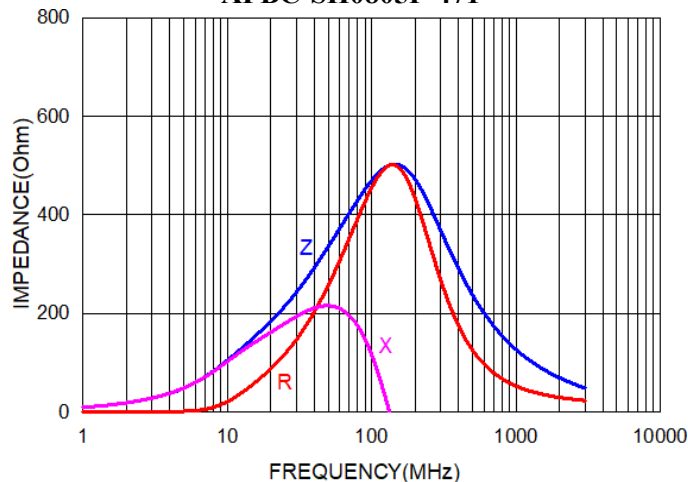


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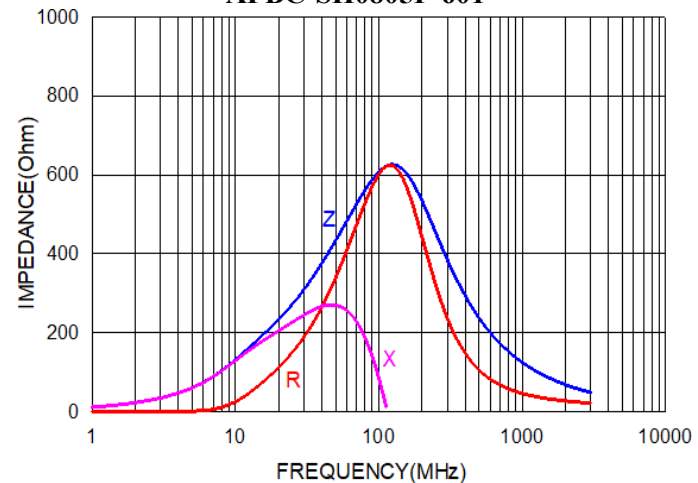
AFBC-SH0805P-331



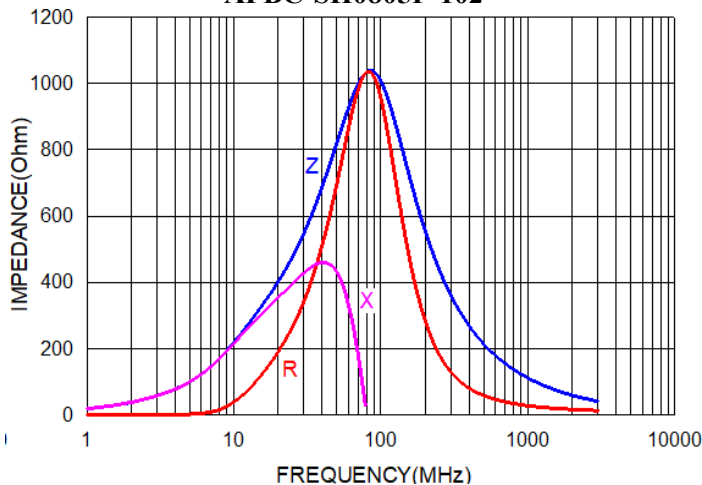
AFBC-SH0805P-471



AFBC-SH0805P-601



AFBC-SH0805P-102



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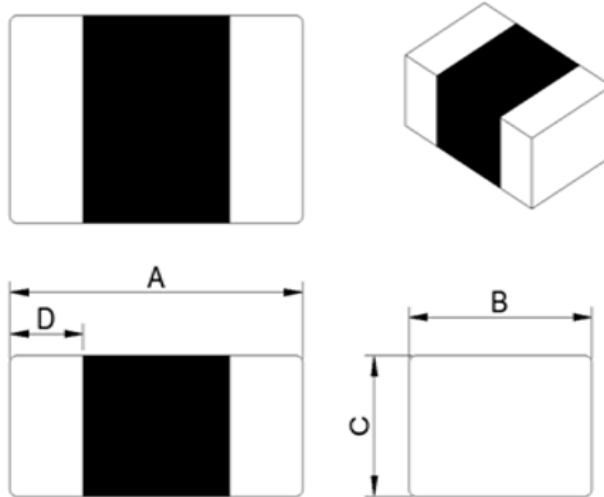


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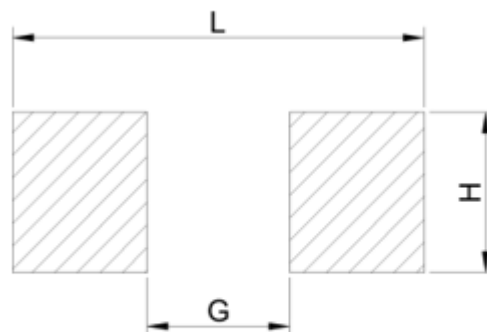
2.0 x 1.25 x 0.85 mm
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Mechanical Specifications



A	B	C	D
2.00±0.2	1.25±0.2	0.85±0.20	0.50±0.3

Dimensions: mm

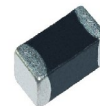


Recommended PCB Layout

L	G	H
3.10 Ref	1.00 Ref	1.45 Ref

Dimensions: mm

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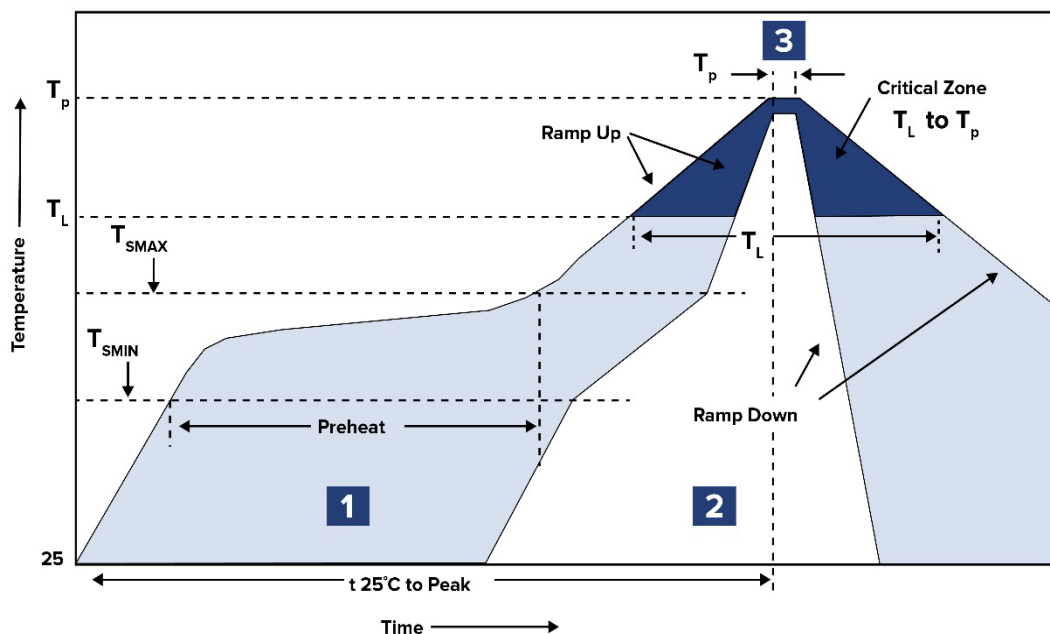


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Reflow Profile

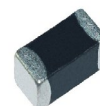


Zone	Description	Temperature	Times
1	Preheat	$T_{S\text{MIN}} \sim T_{S\text{MAX}}$ 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	T_L 217°C	60 ~ 150 sec.
3	Peak heat	T_P 260°C ±5°C	30 sec. MAX

Ramp up: T_L to $T_P = 3^\circ\text{C/s}$ Max.

Ramp down: T_P to $T_L = 6^\circ\text{C/s}$ Max.

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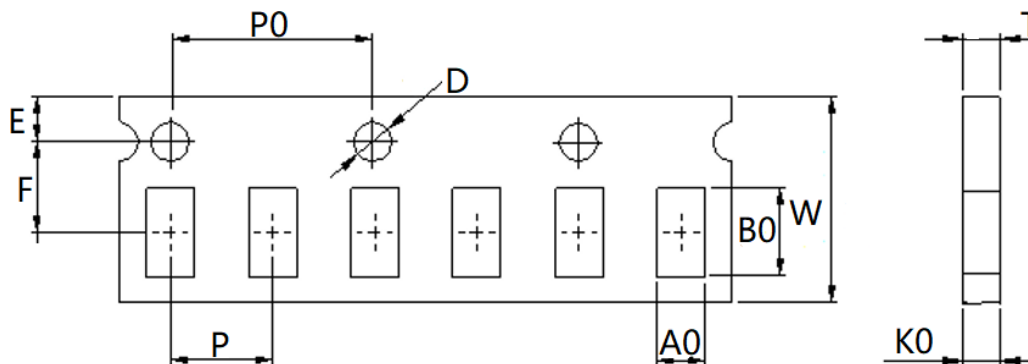
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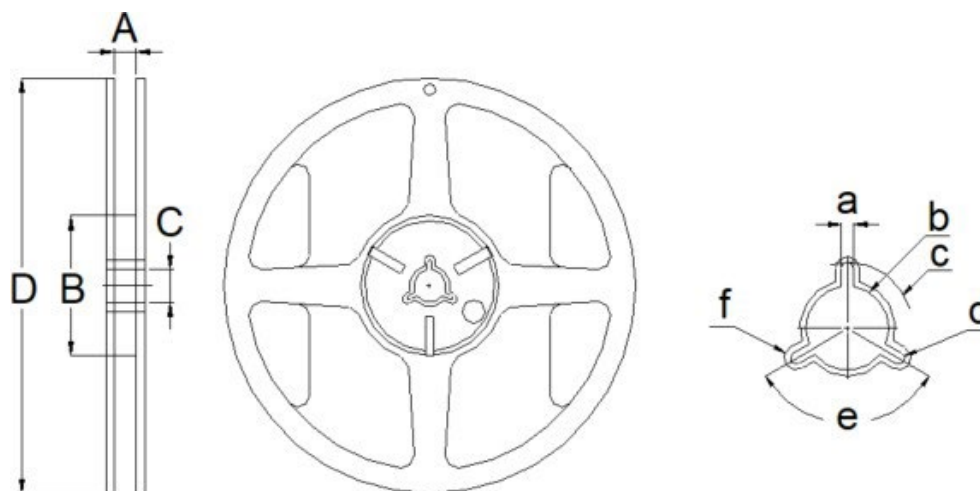
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Packaging

Tape & Reel: 4K pcs/reel



Series	B0	A0	K0	P	T
AFBC-SH0805P	2.10±0.05	1.30±0.05	0.95±0.05	4.00±0.10	0.95±0.05
	E	F	P0	D	W
	1.75±0.10	3.50±0.10	4.00±0.10	1.50+0.10/-0.00	8.00±0.10



A	B	C	D	a
9.0 Ref	60.0 Ref	13.5 Ref	178.0 Ref	2.0 Ref
b	c	d	e	f
13.5 Ref	R10.5	R0.5	120°	R1.9

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.



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