

Low Loss, High Power Ferrite Beads



AFBC-SH0402P

Request Samples



Check Inventory



1.0 x 0.5 x 0.5 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 18mΩ
- 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-SH0402P-100	10	0.018	4000
AFBC-SH0402P-300	30	0.022	3000
AFBC-SH0402P-600	60	0.032	2500
AFBC-SH0402P-800	80	0.038	2300
AFBC-SH0402P-121	120	0.050	2000
AFBC-SH0402P-221	220	0.095	1500
AFBC-SH0402P-301	300	0.150	1200
AFBC-SH0402P-471	470	0.180	1100
AFBC-SH0402P-601	600	0.200	1000

Test Conditions and Equipment

Z Test Frequency: 100MHz/60mV

DCR: High Accuracy LCR Meter – HP4263A

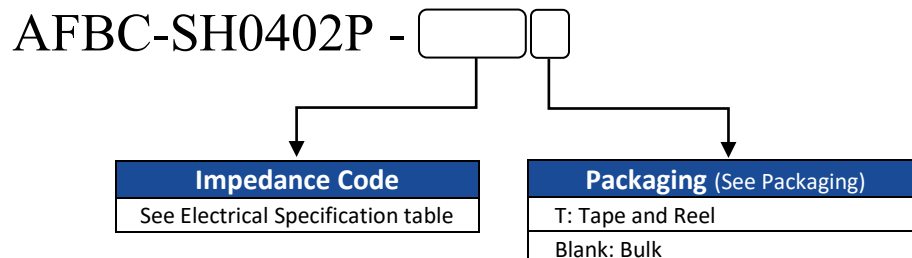
IR: Rated current applied when the chip surface temperature rise just 20°C against ambient temperature.

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

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

AFBC-SH0402P is RoHS Compliant and Pb free

Part Identification



Low Loss, High Power Ferrite Beads



AFBC-SH0402P

Request Samples



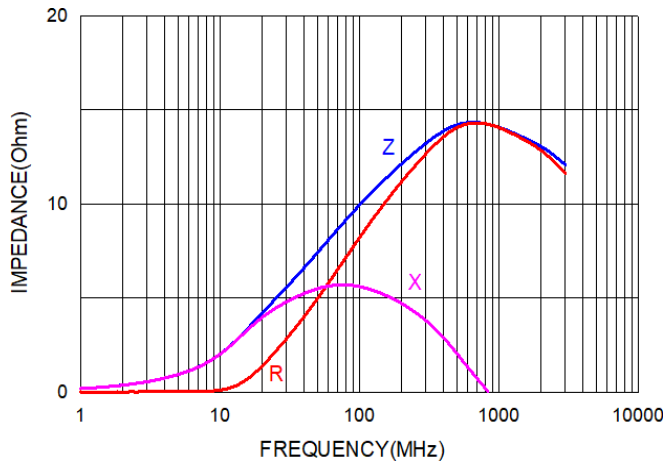
Check Inventory



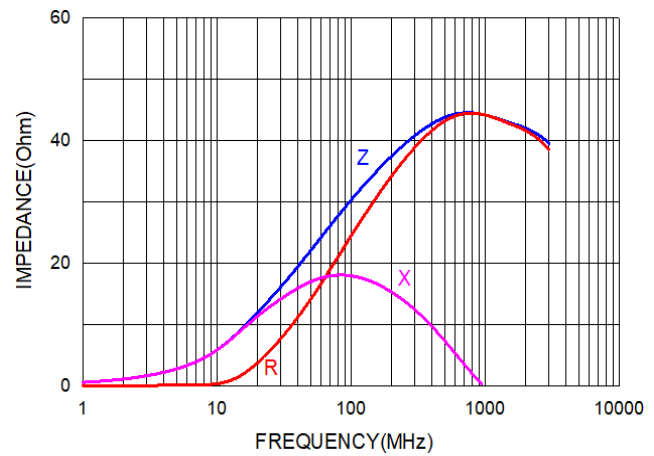
1.0 x 0.5 x 0.5 mm
RoHS/RoHS II Compliant
MSL Level = 1

Performance Graphs

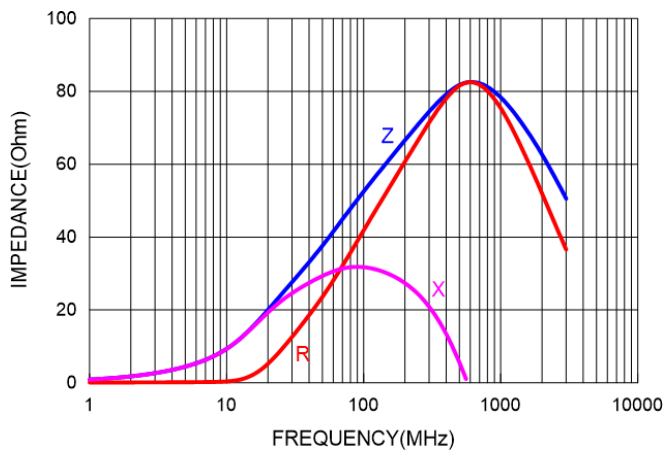
AFBC-SH0402P-100



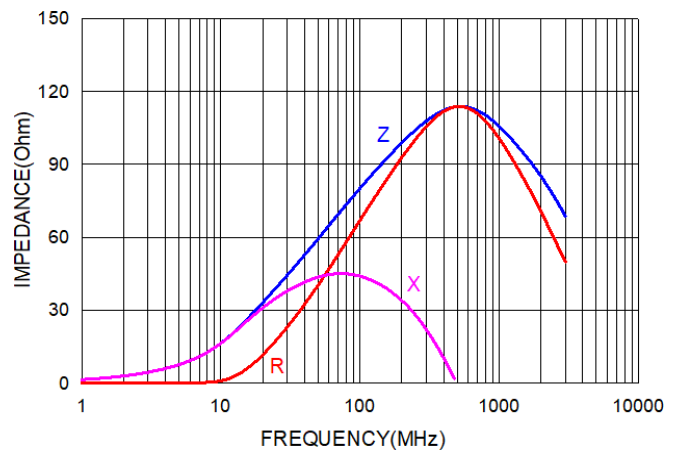
AFBC-SH0402P-300



AFBC-SH0402P-600



AFBC-SH0402P-800



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 :
4/15/2026

ABRACON IS
ISO9001-2015
CERTIFIED

Low Loss, High Power Ferrite Beads



AFBC-SH0402P

Request Samples

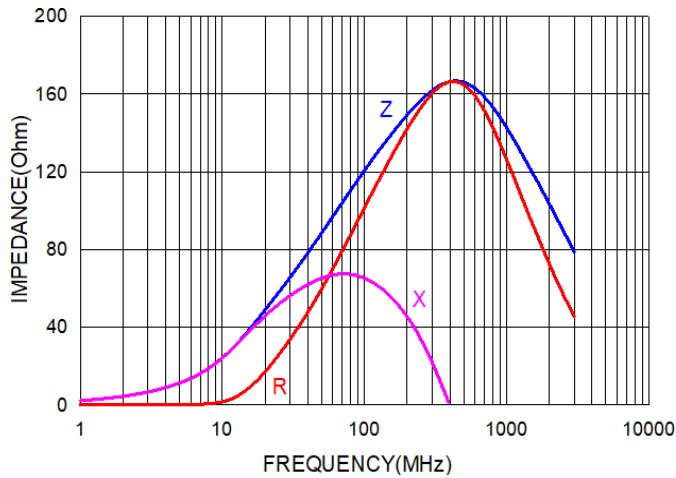


Check Inventory

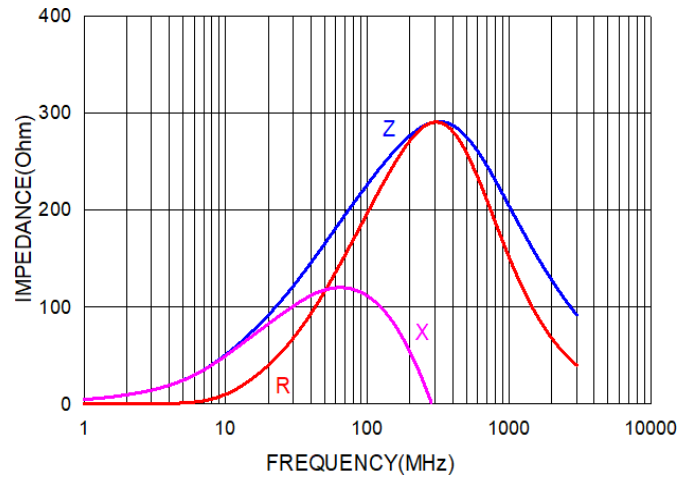


1.0 x 0.5 x 0.5 mm
RoHS/RoHS II Compliant
MSL Level = 1

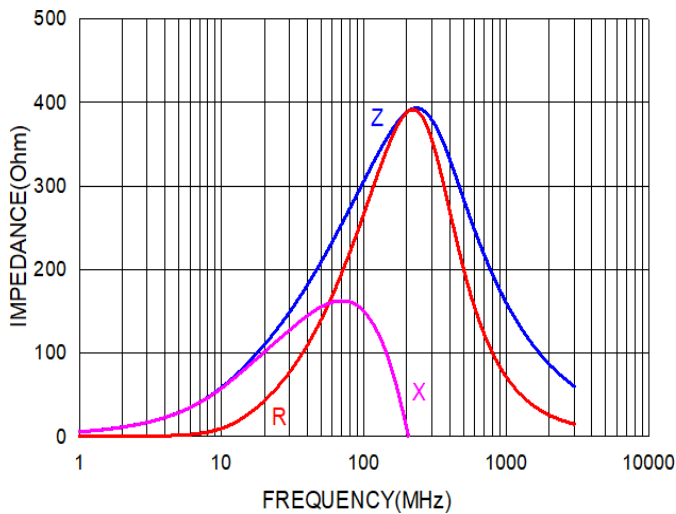
AFBC-SH0402P-121



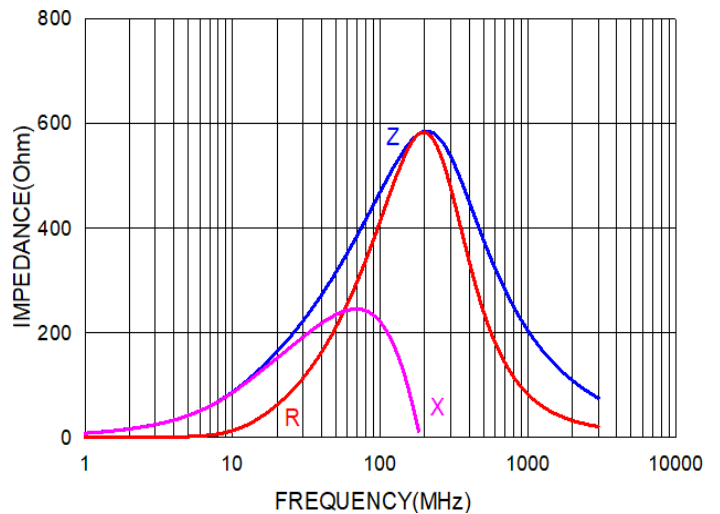
AFBC-SH0402P-221



AFBC-SH0402P-301



AFBC-SH0402P-471



Low Loss, High Power Ferrite Beads



AFBC-SH0402P

Request Samples

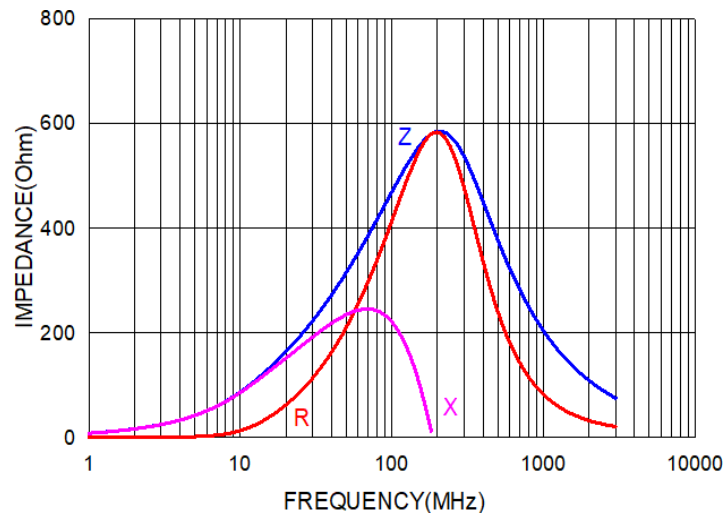


Check Inventory

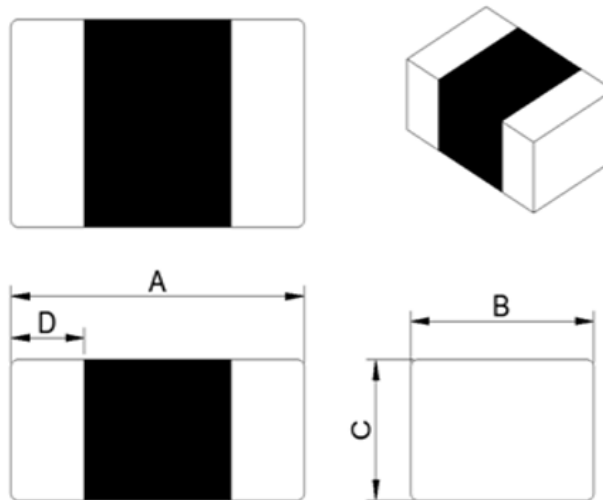


1.0 x 0.5 x 0.5 mm
RoHS/RoHS II Compliant
MSL Level = 1

AFBC-SH0402P-601



Mechanical Specifications



A	B	C	D
1.00±0.10	0.50±0.10	0.50±0.10	0.25±0.10

Dimensions: mm

Low Loss, High Power Ferrite Beads



AFBC-SH0402P

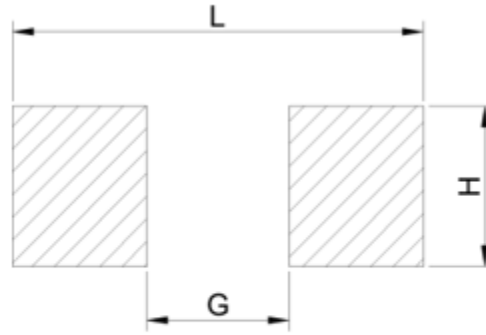
Request Samples



Check Inventory



1.0 x 0.5 x 0.5 mm
RoHS/RoHS II Compliant
MSL Level = 1

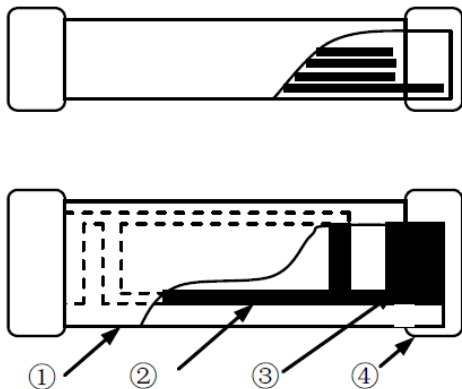


Recommended PCB Layout

L	G	H
1.40 Ref	0.40 Ref	0.60 Ref

Dimensions: mm

Materials



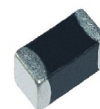
	Part Name	Material
1	Base Material	Ceramic powder
2	Internal Conductor	Ag paste
3	Terminal Electrode	Ag
4	Electrode Plating	Ni-Sn



Reflow Profile



Low Loss, High Power Ferrite Beads



AFBC-SH0402P

Request Samples



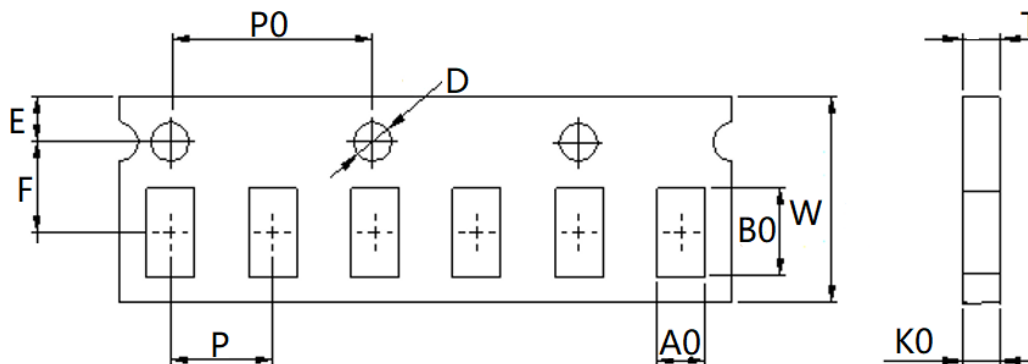
Check Inventory



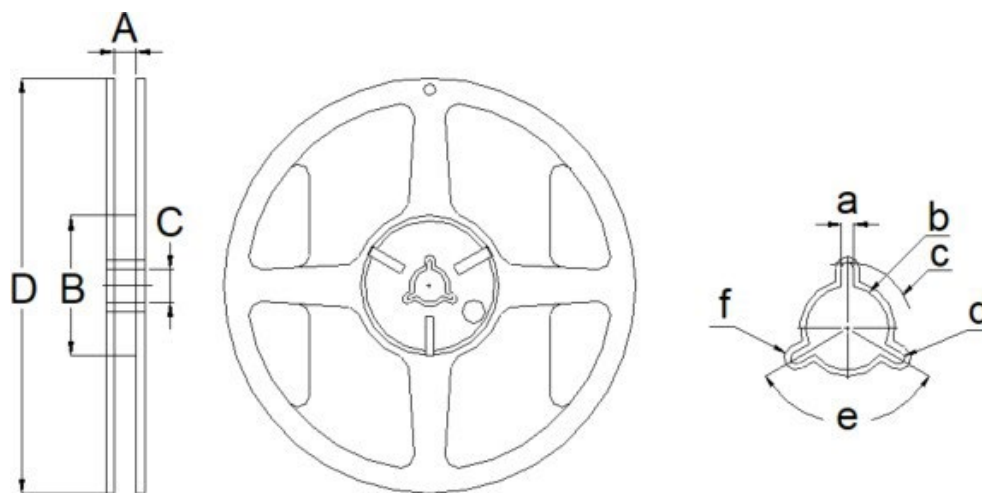
1.0 x 0.5 x 0.5 mm
RoHS/RoHS II Compliant
MSL Level = 1

Packaging

Tape & Reel: 10K pcs/reel



Series	B0	A0	K0	P	T
AFBC-SH0402P	1.12±0.03	0.62±0.03	0.60±0.03	2.00±0.05	0.60±0.03
	E	F	P0	D	W
	1.75±0.10	3.50±0.05	4.00±0.10	1.50+0.10/-0.00	8.00±0.30



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.



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 :
4/15/2026

ABRACON IS
 ISO9001-2015
 CERTIFIED