

LEADED FERRITE BEAD INDUCTORS(FB SERIES A TYPE / R TYPE)



WAVE

■ PARTS NUMBER

*Operating Temp. : -25~+85°C (Including self-generated heat)

F	B	A	0	4	H	A	4	5	0	B	B	—	0	0
①	②	③	④	⑤	⑥	⑦								

△=Blank space

① Series name

Code	Series name
FB	Ferrite bead

② Shape

Code	Shape
A	Axial lead
R	Radial lead

③ Dimensions of core (D)

Code	Dimensions of core (D) [mm]
03	φ 2.5
04	φ 3.5
05	5.0
06	6.0
07	7.5

④ Material

Code	Material
HA	Refer to impedance curves
VA	for material differences

⑤ Nominal impedance

Code (example)	Nominal impedance [Ω min.]
850	85
121	120

Excluding 03type

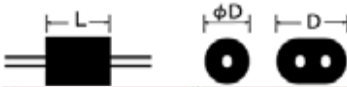
⑥ Lead configuration

Code	Lead configurations [mm]
AB	Straight lead (26mm lead space) / ammo
BB	Straight lead (52mm lead space) / ammo
KD	Formed lead (10mm pitch) / bulk
KE	Formed lead (12.5mm pitch) / bulk
KF	Formed lead / bulk (15.0mm pitch) / bulk
NA	Lead (2.5mm pitch)/bulk (FBR) Straight lead / bulk (FBA)
NB	Formed lead (crimped) / bulk
SA	Straight lead (FBR05 type) / ammo
SB	Straight lead (FBR07 type) / ammo
TB	Straight lead (FBR07 type) / ammo
UB	Radial lead formed / ammo
US	Formed lead (crimped) / bulk
VB	Dual side lead formed (crimped) / ammo
VS	Formed lead / bulk

⑦ Internal code

Code	Internal code
—00	Standard

■ STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY



Type	Configurations				Dimensions		Standard Quantity (pcs)			
	Taping		Bulk		D	L	Type	Lead Configuration	Bulk	Taped Ammo
FBA	03HA450 □ -00 03VA450 □ -00 W: 26.52 (1.02, 2.05) P: 5.0 (0.197)	VB UB P: 12.7 (0.500)	NA	KD, KE, KF F: 10, 12.5, 15 (0.39, 0.492, 0.591) VS US F: 5.0 (0.197)	2.5±0.2 (0.098±0.008)	4.5±0.3 (0.177±0.012)	FBA03	NA, KD, US	1000	—
								KE, KF, VS	500	—
	04HA450 □ -00 04VA450 □ -00 W: 26.52 (1.02, 2.05) P: 5.0 (0.197)	VB UB P: 12.7 (0.500)	NA	KD, KE, KF F: 10, 12.5, 15 (0.39, 0.492, 0.591) VS US F: 5.0 (0.197)	3.5±0.2 (0.138±0.008)	4.5±0.3 (0.177±0.012)		NA, KD, US	1000	—
								KE, KF, VS	500	—
04HA600 □ -00 04VA600 □ -00 W: 26.52 (1.02, 2.05) P: 5.0 (0.197)	VB UB P: 12.7 (0.500)	NA	KD, KE, KF F: 10, 12.5, 15 (0.39, 0.492, 0.591) VS US F: 5.0 (0.197)	3.5±0.2 (0.138±0.008)	6.0 ^{+0.5} _{-0.0} (0.236 ^{+0.020} _{-0.0})	KE, KF, VS	500	—		
						AB, BB	—	1000		
04HA900 □ -00 04VA900 □ -00 W: 26.52 (1.02, 2.05) P: 5.0 (0.197)	VB UB P: 12.7 (0.500)	NA	KE, KF F: 12.5, 15 (0.492, 0.591) VS US F: 5.0 (0.197)	3.5±0.2 (0.138±0.008)	9.0±0.5 (0.354±0.020)	UB, VB	—	3000		

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Type	Configurations				Dimensions		Standard Quantity (pcs)				
	Taping		Bulk		D	L	Type	Lead Configuration	Bulk	Taped Ammo	
	Straight	Formed	Straight	Formed							
FBR	05VA121□-00	—	 SA P: 12.7 (0.508)	—	 NA F: 2.5 (0.098)	5.0 max. (0.197 max.)	7.5 (0.295)	FBR05	NA	1000	—
	06HA850NA-00 06VA850NA-00	—	—	—	 NA F: 2.5 (0.098)	6.0±0.5 (0.236±0.020)	5.0 (0.197) 7.0 (0.278)		FBR06	NA	1000
	07HA850□-00 07VA850□-00	—	 SB, TB P: 12.7 (0.500) H: SB 18±0.5 TB 16±0.5	—	 NB F: 5.0 (0.197)	7.5±0.5 (0.295±0.020)	5.5 (0.217)	FBR07	NB	1000	—
	07HA121□-00 07VA121□-00	—	—	—	 NB F: 5.0 (0.197)	7.5 (0.295)	SB		—	2000	

Unit: mm (inch)

□ Please specify the lead configuration code.

Note: Lead diameter (ϕ) shall fall within a range of 0.65mm±0.05mm, FBR07 types however, will have a lead diameter (ϕ) range of 0.6mm±0.05mm.

■ PARTS NUMBER

● FBA

Parts number	EHS	Nominal impedance [Ω] (min.)	Impedance measuring frequency [MHz]		Rated current [A] (max.)		DC Resistance [Ω] (max.)	Rated current [mA] (min.)
			Material		Material			
			HA	VA	HA	VA		
FBA03△450□-00	RoHS	35	50	100	7.0	7.0	0.01	1.0
FBA04△450□-00	RoHS	45	50	100	7.0	7.0	0.01	1.0
FBA04△600□-00	RoHS	60	50	100	7.0	7.0	0.01	1.0
FBA04△900□-00	RoHS	90	50	100	7.0	7.0	0.01	1.0

● FBR

Parts number	EHS	Nominal impedance [Ω] (min.)	Impedance measuring frequency [MHz]		Rated current [A] (max.)		DC Resistance [Ω] (max.)	Rated current [mA] (min.)
			Material		Material			
			HA	VA	HA	VA		
FBR05VA121□-00	RoHS	120	—	100	—	7.0	0.01	1.0
FBR06△850NA-00	RoHS	85	50	100	7.0	7.0	0.01	1.0
FBR06△121NA-00	RoHS	120	50	100	7.0	7.0	0.01	1.0
FBR07△850□-00	RoHS	85	50	100	7.0	7.0	0.01	1.0
FBR07△121□-00	RoHS	120	50	100	7.0	7.0	0.01	1.0

※△ Please specify material codes (HA,VA) and □ lead configuration code.

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PACKAGING

① Minimum Quantity

● Axial lead (FBA)

Type	Lead Configuration	Standard quantity [pcs]	
		Bulk	Taped Ammo
FBA03	NA, KD, US	1000	—
	KE, KF, VS	500	—
	AB, BB	—	2000
	UB, VB	—	3000
FBA04	NA, KD, US	1000	—
	KE, KF, VS	500	—
	AB, BB	—	1000
	VB, UB	—	3000

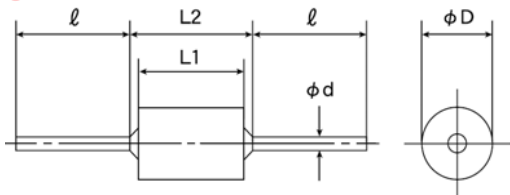
● Radial lead (FBR)

Type	Lead Configuration	Standard quantity [pcs]	
		Bulk	Taped Ammo
FBR05	NA	1000	—
	SA	—	2000
FBR06	NA	1000	—
FBR07	NB	1000	—
	SB, TB	—	2000

② Bulk dimensions

Axial lead (FBA)

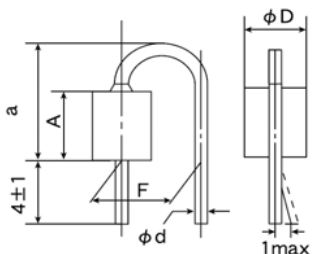
● NA



Type	Dimensions				
	ϕD	L1	L2	ϕd	ℓ
FBA03□450	2.5 ± 0.2 (0.098 ± 0.008)	4.5 ± 0.3 (0.177 ± 0.012)	6.5 max. (0.256 max.)	0.65 ± 0.05 (0.026 ± 0.002)	18 min. (0.709 min.)
FBA04□450	3.5 ± 0.2 (0.138 ± 0.008)	4.5 ± 0.3 (0.177 ± 0.012)	6.5 max. (0.256 max.)		
FBA04□600	3.5 ± 0.2 (0.138 ± 0.008)	$6.0 + 0.5 / -0$ ($0.236 + 0.020 / -0$)	8.5 max. (0.335 max.)		
FBA04□900	3.5 ± 0.2 (0.138 ± 0.008)	9.0 ± 0.5 (0.354 ± 0.020)	11.0 max. (0.433 max.)		

Unit : mm (inch)

● US



Type	Dimensions				
	ϕD	A	a	F	ϕd
FBA03□450	2.5 ± 0.2 (0.098 ± 0.008)	4.5 ± 0.3 (0.177 ± 0.012)	9.0 max. (0.354 max.)	5.0 ± 1.0 (0.197 ± 0.039)	0.65 ± 0.05 (0.026 ± 0.002)
FBA04□450	3.5 ± 0.2 (0.138 ± 0.008)	4.5 ± 0.3 (0.177 ± 0.012)	9.0 max. (0.354 max.)		

Unit : mm (inch)

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