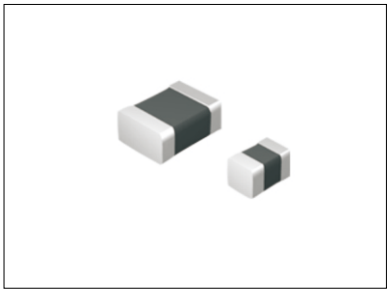
High Frequency Ferrite Chip Beads - MSBC Series

Meisongbei



RoHS COMPLIANT | REACH COMPLIANT | Halogen Free

Features

- The MSBC Series is similar to MSMB series at frequency below 100MHz, however at 1GHz the impedance is approx. 3 times larger
- The MSBC is intended for standard signal lines as this series provides significant impedance across a broad frequency range.
- The magnetic shielded structure minimizes crosstalk

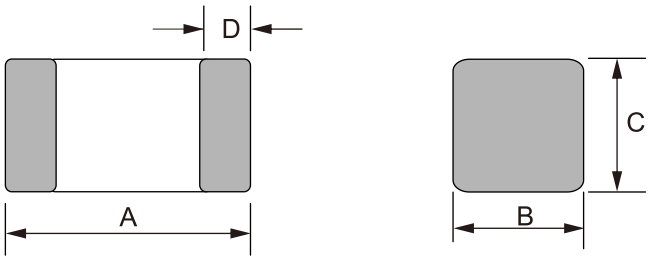
Applications

- The MSBC series is realized high impedance at 1GHz and suitable for noise suppression of digital interface from **500MHz to 1Ghz** range.
- The MSBC series is effective in suppressing the ringing because resistance especially grows in the lower frequency.

General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -40°C to +125°C

Dimensions & Configurations (Unit:mm)



Type	A	B	C	D
MSBC100505	1.0±0.05	0.5±0.05	0.5±0.05	0.25±0.1
MSBC160808	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2

Electrical Characteristics For MSBC100505 Series

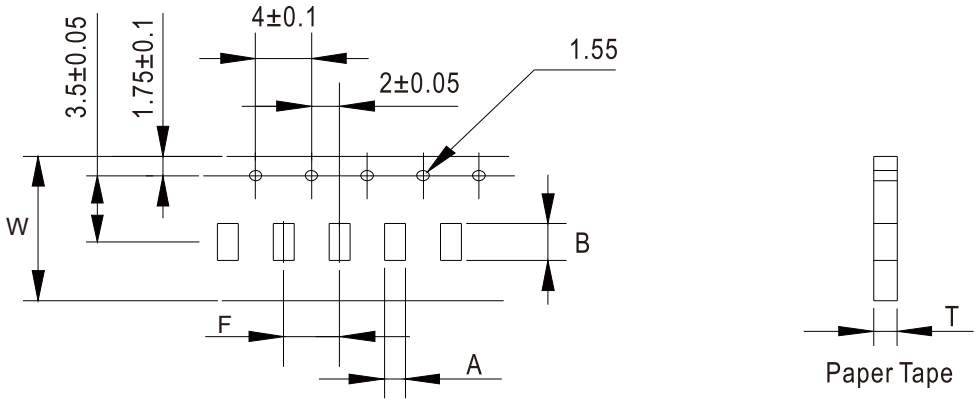
Part Number	Impedance [Ω]±25% (@100MHz)	Impedance [Ω]±40% (@1GHz)	DCR(max) [Ω]	IDC(max) [mA]
MSBC100505A201	200	300	0.7	200
MSBC100505A221	220	300	0.7	200
MSBC100505A301	300	400	0.7	200
MSBC100505A331	330	400	0.7	200
MSBC100505A601	600	1000	0.7	300
MSBC100505A102	1000	1400	1.1	250
MSBC100505B601	600	1400	0.85	300
MSBC100505B102	1000	2000	1.25	250
MSBC100505H221	220	900	1	250

Electrical Characteristics For MSBC160808 Series

Part Number	Impedance [Ω]±25% (@100MHz)	Impedance [Ω] (@1GHz)	DCR(max) [Ω]	IDC(max) [mA]
MSBC160808A331	330	400±40%	0.5	200
MSBC160808A471	470	500±40%	0.7	200
MSBC160808A601	600	600±40%	0.9	100
MSBC160808A751	750	750±40%	1.5	50
MSBC160808A801	800	1000±40%	1.5	50
MSBC160808A102	1000	1200±40%	1.5	50
MSBC160808A122	1200	1000±40%	1.5	50
MSBC160808B471	470	800(Min.)	1.2	100
MSBC160808B601	600	1200(Min.)	1.5	100
MSBC160808B102	1000	1700(Typ.)	1.8	50
MSBC160808H101	100	500±40%	0.5	200
MSBC160808H121	120	500±40%	0.5	200
MSBC160808H151	150	800±40%	0.5	200
MSBC160808H201	200	1100±40%	0.8	100
MSBC160808H221	220	1100±40%	0.8	100
MSBC160808H331	330	1300±40%	1.2	50
MSBC160808K601	600	1000(Typ.)	0.8	200
MSBC160808K102	1000	1400(Typ.)	1.0	100

Tape & Reel Specifications:

Unit: mm



Type	Tape Dimensions (mm)						Tape type	Reel OD (mm)	Quantity PCS / Reel
	W	A	B	F	T	t			
MSBC100505	8	0.62	1.12	2.0	0.60	-	Paper Tape	178	10,000
MSBC160808	8	1.00	1.85	4.0	0.95	-	Paper Tape	178	4,000