

MURATA EMI Suppression Filters (EMIFIL®) Chip Ferrite Beads



RoHS Compliant This product is RoHS compliant.

The chip ferrite beads BLM series comprises ferrite bead in the shape of a chip. This ferrite bead generates a high impedance which at high frequency mainly consists of a resistance element. The BLM series is effective in circuits without stable ground lines because the BLM series does not need a connection to ground. The nickel barrier structure of the external electrodes provides excellent solder heat resistance.

BLM_A SERIES DESIGNED FOR STANDARD TYPE SIGNALS

BLM_A series generates an impedance from the relatively low frequencies. Therefore, BLM_A series is effective in noise suppression in a wide frequency range.

Features:

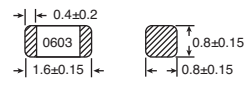
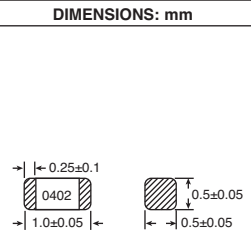
- Suitable for flow and reflow soldering
- Wide temperature range: -55°C to +125°C

Applications:

- I/O ports, DC power lines, and signal lines

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Murata Part No.	Case Code	Impedance (at 100MHz) (Ω)	Rated Current (mA)	Rdc Max. (Ω)	Price Each				Reel Qty.	Price Per Piece
						1	50	100	500		
81-BLM15AG100SN1D	BLM15AG100SN1D	0402	10	1000	.05	.10	.05	.041	.037	10000	.029
81-BLM15AG700SN1D	BLM15AG700SN1D	0402	70	500	.15	.06	.05	.041	.037	10000	.029
81-BLM15AG121SN1D	BLM15AG121SN1D	0402	120	500	.25	.10	.05	.041	.037	10000	.029
81-BLM15AG221SN1D	BLM15AG221SN1D	0402	220	300	.35	.10	.05	.043	.039	10000	.031
81-BLM15AG601SN1D	BLM15AG601SN1D	0402	600	300	.60	.14	.05	.043	.039	10000	.03
81-BLM15AG102SN1D	BLM15AG102SN1D	0402	1K	200	1.0	.14	.05	.043	.039	10000	.03
81-BLM11A121S	BLM18AG121SN1D	0603	120	200	.20	.08	.04	.037	.033	4000	.026
81-BLM18AG151SN1D	BLM18AG151SN1D	0603	150	200	.25	.08	.053	.048	.044	4000	.03
81-BLM11A221S	BLM18AG221SN1D	0603	220	200	.30	.08	.04	.037	.033	4000	.026
81-BLM18AG331SN1D	BLM18AG331SN1D	0603	330	200	.30	.08	.053	.048	.044	4000	.03
81-BLM18AG471SN1D	BLM18AG471SN1D	0603	470	200	.50	.08	.04	.037	.033	4000	.024
81-BLM11A601S	BLM18AG601SN1D	0603	600	200	.50	.08	.04	.037	.033	4000	.026
81-BLM11A102S	BLM18AG102SN1D	0603	1000	100	.70	.08	.04	.037	.033	4000	.026
81-BLM21AG350SN1D	BLM21AG350SN1D	0805	35	200	.15	.11	.064	.059	.044	4000	.035
81-BLM21AG121SN1D	BLM21AG121SN1D	0805	120	200	.15	.11	.06	.049	.044	4000	.034
81-BLM21AG151SN1D	BLM21AG151SN1D	0805	150	200	.15	.11	.064	.059	.044	4000	.035
81-BLM21AG221SN1D	BLM21AG221SN1D	0805	220	200	.20	.11	.064	.059	.044	4000	.035
81-BLM21AG331SN1D	BLM21AG331SN1D	0805	330	200	.25	.11	.064	.059	.044	4000	.035
81-BLM21AG471SN1D	BLM21AG471SN1D	0805	470	200	.25	.11	.06	.049	.044	4000	.034
81-BLM21A601F	BLM21AG601SN1D	0805	600	200	.30	.11	.06	.049	.044	4000	.034
81-BLM21AG102SN1	BLM21AG102SN1D	0805	1000	200	.45	.11	.06	.055	.044	4000	.035



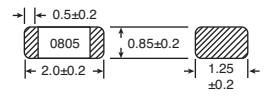
BLM_H SERIES DESIGNED FOR UHF APPLICATIONS

BLM18H series has a modified internal electrode structure, that minimizes stray capacitance and increases the effective frequency range.

- BLM18H series realizes high impedance at 1GHz and is suitable for noise suppression from 500MHz to GHz range
- HD-type for high-speed signal line provides a sharper roll-off after the cut off frequency
- HG-type is effective in noise suppression in wide frequency range
- The magnetic shielded structure minimizes cross talk
- Operating Temperature: -55°C to +125°C

For quantities of 8000 and up, call for quote.

81-BLM15HD601SN1D	BLM15HD601SN1D	0402	600	300	.85	.20	.12	.094	.084	10000	.065
81-BLM15HG601SN1D	BLM15HG601SN1D	0402	600	300	.70	.20	.12	.094	.084	10000	.065
81-BLM15HG102SN1D	BLM15HG102SN1D	0402	1K	250	1.1	.20	.12	.094	.084	10000	.066
81-BLM18HB121SN1	BLM18HB121SN1D	0603	120	200	.50	.15	.095	.086	.078	4000	.043
81-BLM18HB221SN1D	BLM18HB221SN1D	0603	220	100	1.2	.15	.095	.086	.078	4000	.043
81-BLM18HB331SN1D	BLM18HB331SN1D	0603	330	50	1.8	.15	.095	.086	.078	4000	.043
81-BLM18HD471SN1D	BLM18HD471SN1D	0603	470	100	1.2	.17	.10	.08	.072	4000	.051
81-BLM11HB601SD	BLM18HD601SN1D	0603	600	100	1.5	.17	.10	.08	.072	4000	.051
81-BLM11HB102SD	BLM18HD102SN1D	0603	1000	50	1.8	.17	.10	.08	.072	4000	.051
81-BLM11HA471SG	BLM18HG471SN1D	0603	470	200	1.5	.17	.10	.08	.072	4000	.051
81-BLM11HA601SG	BLM18HG601SN1D	0603	600	200	1.0	.17	.10	.08	.072	4000	.051
81-BLM11HA102SG	BLM18HG102SN1D	0603	1000	100	1.6	.17	.10	.08	.072	4000	.051
81-BLM18HK331SN1	BLM18HK331SN1D	0603	330	200	.50	.17	.11	.10	.093	4000	.051
81-BLM18HK471SN1D	BLM18HK471SN1D	0603	470	200	.70	.12	.10	.08	.072	4000	.051
81-BLM18HK601SN1D	BLM18HK601SN1D	0603	600	100	.90	.12	.10	.08	.072	4000	.051
81-BLM18HK102SN1D	BLM18HK102SN1D	0603	1K	50	1.5	.12	.10	.08	.072	4000	.051



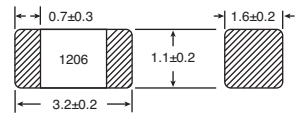
BLM_P SERIES DESIGNED FOR LOW DCR HIGH CURRENT CIRCUITS

BLM_P series can match power lines to a maximum of 6A DC

- Operating Temperature: -55°C to +125°C

For quantities greater than listed, call for quote.

81-BLM11P300S	BLM18PG300SN1D	0603	30	1000	.05	.08	.04	.037	.033	4000	.024
81-BLM11P600S	BLM18PG600SN1D	0603	60	500	.10	.08	.04	.037	.033	4000	.024
81-BLM18PG121SN1D	BLM18PG121SN1D	0603	120	2000	.05	.08	.04	.037	.033	4000	.024
81-BLM18PG181SN1D	BLM18PG181SN1D	0603	180	1500	.09	.08	.05	.048	.044	4000	.024
81-BLM21PG220SN1D	BLM21PG220SN1D	0805	22	6000	.01	.10	.064	.058	.053	4000	.029
81-BLM21P300S	BLM21PG300SN1D	0805	30	3000	.015	.10	.06	.047	.042	4000	.029
81-BLM21P600S	BLM21PG600SN1D	0805	60	3000	.025	.10	.06	.047	.042	4000	.029
81-BLM21P221SG	BLM21PG221SN1D	0805	220	2000	.05	.10	.04	.037	.033	4000	.025
81-BLM21P331SG	BLM21PG331SN1D	0805	330	1500	.09	.10	.06	.058	.053	4000	.029
81-BLM31P330S	BLM31PG330SN1L	1206	33	6000	.01	.23	.19	.17	.14	3000	.092
81-BLM31P500S	BLM31PG500SN1L	1206	50	3000	.025	.23	.17	.133	.119	3000	.084
81-BLM31PG121SN1L	BLM31PG121SN1L	1206	120	3000	.025	.23	.17	.133	.119	3000	.084
81-BLM31P391S	BLM31PG391SN1L	1206	390	2000	.05	.23	.17	.133	.10	3000	.084
81-BLM31PG601SN1	BLM31PG601SN1L	1206	600	1500	.09	.23	.17	.133	.119	3000	.084
81-BLM41P600S	BLM41PG600SN1L	1806	60	6000	.01	.25	.21	.168	.15	2500	.11
81-BLM41P750S	BLM41PG750SN1L	1806	75	3000	.025	.25	.21	.168	.15	2500	.11
81-BLM41PG101SN1L	BLM41PG101SN1L	1806	100	3000	.025	.25	.19	.15	.13	2500	.105
81-BLM41P181S	BLM41PG181SN1L	1806	180	3000	.025	.25	.199	.153	.137	2500	.107
81-BLM41PG471SN1L	BLM41PG471SN1L	1806	470	2000	.05	.25	.201	.155	.139	2500	.102
81-BLM41PG102SN1L	BLM41PG102SN1L	1806	1K	1500	.09	.36	.222	.171	.153	2500	.11



BLM_R SERIES DESIGNED FOR DIGITAL INTERFACE

Resistance of BLM_R series especially grows in the lower frequency range. Therefore BLM_R series is less effective for digital signal waveform at low frequency range and can suppress the ringing.

- Operating Temperature: -55°C to +125°C

For quantities of 8000 and up, call for quote.

81-BLM18RK121SN1D	BLM18RK121SN1D	0603	120	200	.25	.05	.04	.037	.033	4000	.024
81-BLM18RK471SN1D	BLM18RK471SN1D	0603	470	200	.50	.08	.05	.048	.044	4000	.019
81-BLM18RK601SN1	BLM18RK601SN1D	0603	600	200	.60	.05	.04	.037	.033	4000	.024
81-BLM18RK102SN1D	BLM18RK102SN1D	0603	1K	200	.80	.05	.04	.037	.033	4000	.024
81-BLM21RK121SN1D	BLM21RK121SN1D	0805	120	200	.15	.11	.072	.065	.059	4000	.032
81-BLM21RK221SN1D	BLM21RK221SN1D	0805	220	200	.20	.11	.072	.065	.059	4000	.032
81-BLM21RK471SN1D	BLM21RK471SN1D	0805	470	200	.25	.11	.072	.065	.059	4000	.032
81-BLM21RK601SN1D	BLM21RK601SN1D	0805	600	200	.30	.12	.08	.073	.066	4000	.036
81-BLM21RK102SN1D	BLM21RK102SN1D	0805	1K	200	.50	.12	.08	.073	.066	4000	.036

