

FMBL series (Rev. 4.1)



Features

- * RoHS compliant
- * Bead inductor for power energy storage or noise suppressor.
- * Fit for power line & signal line circuit.
- * To help you go pass the CE/ FCC standard.

Applications

- * Tablet, notebook, desktop computer and peripheral equipment
- * DSC/ DVC/ LCD television/ set top box
- * Mobile device/ handheld device/ low profile device/ panel...
- * Various electronic equipment

Product Identification

FMBL **201209** **4R7** **K**
 1 2 3 4

1. Product Code
2. Size Code (L*W*H): 2.0 * 1.25 * 0.9mm
3. Inductance: 4.7uH
4. Tolerance: K=±10%, M=±20%

Operating & Storage Condition :

- * Operating Temp. : -40 to +85 °C
- * Storage Temp. : -40 to +85 °C
- * Storage Life Time : 12 Months @25 °C , RH 65%

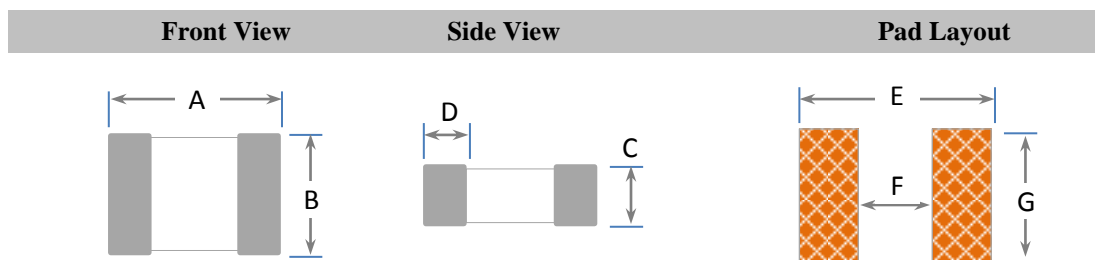
Test Equipment :

- * HP4284A, HP42841A- L, IDC, Q, RDC
- * HP8753D NETWORK ANALYZER- SRF

Standard Atmospheric Conditions :

- * Ambient Temp : 20+/-15 °C
- * Relative Humidity : 65+/-20%

Dimension & Recommended PAD Layout: [mm]



Size Code	A(±0.20)	B(±0.20)	C(±0.20)	D(±0.30)	E(ref.)	F(ref.)	G(ref.)	Type
100505	1.00±0.15	0.50±0.15	0.50±0.15	0.25±0.15	1.10	0.40	0.60	Normal
160808	1.60	0.80	0.80	0.40	1.80	0.60	1.00	
201209	2.00	1.25	0.90	0.50	2.40	0.80	1.45	
201212	2.00	1.25	1.25	0.50	2.40	0.80	1.45	
321609	3.20	1.60	0.90	0.50	3.40	2.00	1.80	
321611	3.20	1.60	1.10	0.50	3.40	2.00	1.80	
322513	3.20	2.50	1.30	0.50	3.40	2.00	2.80	
453215	4.50	3.20	1.50	0.50	4.80	3.00	3.60	

Electrical Characteristics

Part Number	Inductance (uH)	Q min.	L&Q Test Freq. (MHz)	SRF (MHz) min.	DCR (Ω) max.	IDC (mA) max.
FMBL100505-47NK	0.047	10	50	220	0.45	25
FMBL100505-56NK	0.056	10	50	210	0.45	25
FMBL100505-68NK	0.068	10	50	210	0.45	25
FMBL100505-82NK	0.082	10	50	200	0.45	25
FMBL100505-R10K	0.100	15	25	200	0.70	25
FMBL100505-R12K	0.120	15	25	165	0.70	25
FMBL100505-R15K	0.150	15	25	140	0.80	25
FMBL100505-R18K	0.180	15	25	120	0.80	25
FMBL100505-R22K	0.220	15	25	110	1.00	25
FMBL100505-R27K	0.270	15	25	95	1.20	25
FMBL100505-R33K	0.330	15	25	85	1.20	25
FMBL100505-R39K	0.390	15	10	70	1.30	20
FMBL100505-R47K	0.470	15	10	68	1.50	20
FMBL100505-R56K	0.560	15	10	55	2.00	20
FMBL100505-R68K	0.680	15	10	50	2.30	20
FMBL100505-R82K	0.820	15	10	45	3.00	18
FMBL100505-1R0K	1.000	20	10	40	3.50	25
FMBL100505-1R2K	1.200	20	10	35	4.00	25
FMBL160808-47NK	0.047	15	50	260	0.20	50
FMBL160808-56NK	0.056	15	50	260	0.20	50
FMBL160808-68NK	0.068	15	50	250	0.20	50
FMBL160808-82NK	0.082	15	50	245	0.20	50
FMBL160808-R10K	0.10	20	25	240	0.25	50
FMBL160808-R12K	0.12	20	25	205	0.30	50
FMBL160808-R15K	0.15	20	25	180	0.30	50
FMBL160808-R18K	0.18	20	25	165	0.30	50
FMBL160808-R22K	0.22	20	25	150	0.40	50
FMBL160808-R27K	0.27	20	25	136	0.45	50
FMBL160808-R33K	0.33	20	25	125	0.50	50
FMBL160808-R39K	0.39	20	25	110	0.60	50
FMBL160808-R47K	0.47	20	25	105	0.70	50
FMBL160808-R56K	0.56	20	25	95	0.70	50
FMBL160808-R68K	0.68	20	25	90	0.90	50
FMBL160808-R82K	0.82	20	25	85	1.00	50
FMBL160808-1R0K	1.00	25	10	75	0.50	25
FMBL160808-1R2K	1.20	25	10	65	0.55	25
FMBL160808-1R5K	1.50	25	10	60	0.70	25
FMBL160808-1R8K	1.80	25	10	55	0.75	25
FMBL160808-2R2K	2.20	25	10	50	0.80	25
FMBL160808-2R7K	2.70	25	10	45	0.90	15
FMBL160808-3R3K	3.30	25	10	40	1.00	15
FMBL160808-3R9K	3.90	25	10	35	1.30	15
FMBL160808-4R7K	4.70	25	10	33	1.50	15
FMBL160808-5R6K	5.60	12	4	22	1.55	5
FMBL160808-6R8K	6.80	12	4	20	1.55	5
FMBL160808-8R2K	8.20	12	4	18	1.65	5
FMBL160808-100K	10.00	20	2	17	1.75	3
FMBL160808-120K	12.00	20	2	15	1.85	3
FMBL160808-150M	15.00	20	1	14	2.50	1
FMBL160808-180M	18.00	20	1	13	2.70	1
FMBL160808-220M	22.00	20	1	12	3.00	1

* Inductance tolerance: K=±10%, M=±20%

Electrical Characteristics

Part Number	Inductance (μ H)	Q min.	L&Q Test Freq. (MHz)	SRF (MHz) min.	DCR (Ω) max.	IDC (mA) max.
FMBL201209-47NK	0.047	25	50	320	0.15	300
FMBL201209-56NK	0.056	25	50	320	0.15	300
FMBL201209-68NK	0.068	25	50	280	0.20	300
FMBL201209-82NK	0.082	25	50	280	0.20	300
FMBL201209-R10K	0.100	20	25	235	0.20	250
FMBL201209-R12K	0.120	20	25	220	0.25	250
FMBL201209-R15K	0.150	20	25	200	0.25	250
FMBL201209-R18K	0.180	20	25	185	0.30	250
FMBL201209-R22K	0.220	20	25	170	0.30	250
FMBL201209-R27K	0.270	20	25	150	0.40	250
FMBL201209-R33K	0.330	20	25	145	0.40	250
FMBL201209-R39K	0.390	25	25	135	0.50	200
FMBL201209-R47K	0.470	25	25	125	0.50	200
FMBL201209-R56K	0.560	25	25	115	0.60	150
FMBL201209-R68K	0.680	25	25	105	0.65	150
FMBL201209-R82K	0.820	25	25	100	0.70	150
FMBL201209-1R0K	1.000	35	10	75	0.40	50
FMBL201209-1R2K	1.200	35	10	65	0.40	50
FMBL201209-1R5K	1.500	35	10	60	0.40	50
FMBL201209-1R8K	1.800	35	10	55	0.40	50
FMBL201209-2R2K	2.200	35	10	50	0.60	50
FMBL201209-2R7K	2.700	35	10	45	0.60	50
FMBL201209-3R3K	3.300	35	10	41	0.60	50
FMBL201209-3R9K	3.900	35	10	38	0.80	50
FMBL201209-4R7K	4.700	35	10	35	0.90	30
FMBL201209-5R6K	5.600	30	4	32	1.00	15
FMBL201209-6R8K	6.800	30	4	29	1.05	15
FMBL201209-8R2K	8.200	30	4	26	1.05	15
FMBL201209-100K	10.00	30	2	24	1.15	15
FMBL201209-120K	12.00	30	2	22	1.15	15
FMBL201209-150K	15.00	25	1	19	1.15	5
FMBL201209-180K	18.00	25	1	18	1.20	5
FMBL201209-220K	22.00	25	1	16	1.20	5
FMBL201209-270K	27.00	25	1	16	1.50	5
FMBL201209-330M	33.00	25	1	16	1.50	5
FMBL201212-390M	39.00	25	1	16	1.50	5
FMBL201212-470M	47.00	25	1	15	1.70	5

* Inductance tolerance: K=±10%, M=±20%

Electrical Characteristics

Part Number	Inductance (μ H)	Q min.	L&Q Test Freq. (MHz)	SRF (MHz) min.	DCR (Ω) max.	IDC (mA) max.
FMBL321609-47NK	0.047	30	50	320	0.15	300
FMBL321609-56NK	0.056	30	50	320	0.20	300
FMBL321609-68NK	0.068	30	50	280	0.25	300
FMBL321609-82NK	0.082	30	50	280	0.25	300
FMBL321609-R10K	0.100	25	25	235	0.25	250
FMBL321609-R12K	0.120	25	25	220	0.25	250
FMBL321609-R15K	0.150	25	25	200	0.25	250
FMBL321609-R18K	0.180	25	25	185	0.30	250
FMBL321609-R22K	0.220	25	25	170	0.30	250
FMBL321609-R27K	0.270	25	25	150	0.30	250
FMBL321609-R33K	0.330	25	25	145	0.30	250
FMBL321609-R39K	0.390	30	25	135	0.50	200
FMBL321609-R47K	0.470	30	25	125	0.50	200
FMBL321609-R56K	0.560	30	25	115	0.50	150
FMBL321609-R68K	0.680	30	25	105	0.50	150
FMBL321609-R82K	0.820	30	25	100	0.60	150
FMBL321609-1R0K	1.000	35	10	75	0.30	100
FMBL321609-1R2K	1.200	35	10	65	0.40	100
FMBL321609-1R5K	1.500	35	10	60	0.40	50
FMBL321609-1R8K	1.800	35	10	55	0.40	50
FMBL321609-2R2K	2.200	35	10	50	0.50	50
FMBL321609-2R7K	2.700	35	10	45	0.50	50
FMBL321609-3R3K	3.300	35	10	41	0.50	50
FMBL321609-3R9K	3.900	35	10	38	0.60	50
FMBL321609-4R7K	4.700	35	10	35	0.65	25
FMBL321609-5R6K	5.600	35	4	32	0.80	25
FMBL321609-6R8K	6.800	35	4	29	0.80	25
FMBL321609-8R2K	8.200	35	4	26	0.80	25
FMBL321609-100K	10.00	35	2	24	0.80	25
FMBL321609-120K	12.00	35	2	22	0.90	15
FMBL321609-150K	15.00	30	1	19	1.00	5
FMBL321609-180K	18.00	30	1	18	1.00	5
FMBL321609-220K	22.00	30	1	16	1.20	5
FMBL321609-270K	27.00	30	1	14	1.20	5
FMBL321609-330K	33.00	30	1	13	1.30	5
FMBL321609-390K	39.00	30	1	13	1.30	5
FMBL321611-470K	47.00	30	1	12	1.60	5
FMBL321611-560M	56.00	30	1	12	1.80	5
FMBL321611-680M	68.00	30	1	11	2.00	5
FMBL321611-820M	82.00	30	1	11	2.40	5
FMBL321611-101M	100.00	30	1	8	3.00	5

* Inductance tolerance: K=±10%, M=±20%

[illegible]

GYF 深圳市格亚飞科技有限公司
Gain Your Favor Shenzhen GYF Technology Co.,Ltd.

[illegible]

GYF 深圳市格亚飞科技有限公司
Gain Your Favor Shenzhen GYF Technology Co.,Ltd.