Feature

Compact Size
Miniaturized SMD packaged in low profile and lightweight.

Low Loss
Low insertion loss, high attenuation.

High Soldering Heat Resistance
High quality termination allows both flow and re-flow soldering methods to be applied.

High Performance
Eliminate noise over a wide frequency range. Idea for high frequency and space limited designs.

Available in tape and reel packaging for automatic mounting

Product Identification

□□□□ –□□□□ –□□□□□ –□□ – □□
① ② ③ ④ ⑤

① Product Code
② Dimension Code
③ Series Type (center frequency and material type)
④ Design Code
⑤ Pattern Code

Application

PHS, WLAN, Bluetooth, Home RF, WiMAX, etc.

Figure and Dimension

Figure A

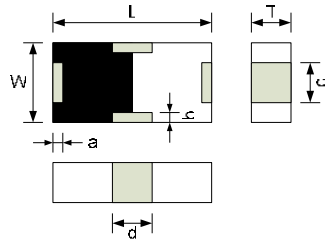


Figure B

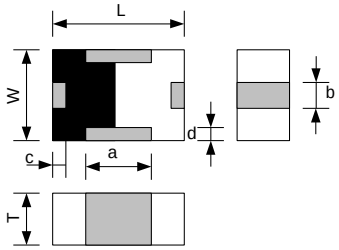


Figure C

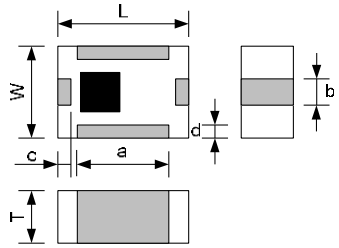


Figure D

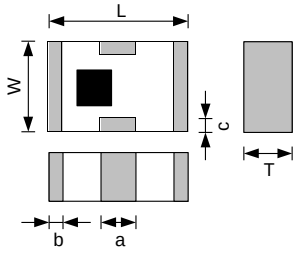


Figure E

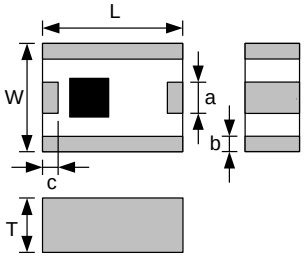


Figure F (bottom view)

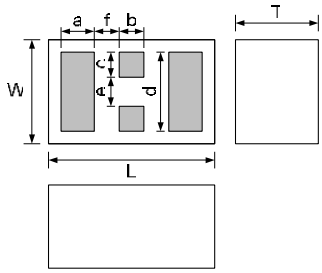
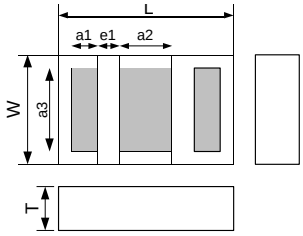


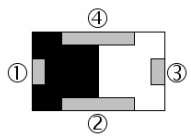
Figure G (bottom view)



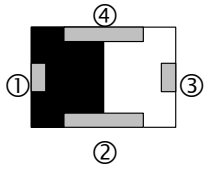
Unit: mm

Figure	L	W	T	a/a1	b/a2	c/a3	d	e/e1
A	1.0±0.05	0.5±0.05	0.40±0.05	0.10±0.05	0.10±0.05	0.30±0.10	0.30±0.10	0.30±0.10
B	1.60±0.10	0.80±0.10	0.60±0.10	0.70±0.15	0.30+0.10 -0.15	0.15±0.10	0.15±0.10	0.15±0.10
C	2.00±0.15	1.25±0.10	0.90±0.10	1.60+0.10 -0.15	0.30+0.10 -0.15	0.30+0.10 -0.20	0.30±0.20	0.30±0.20
D	2.00±0.15	1.25±0.10	0.90±0.10 0.55±0.10	0.40±0.20	0.30±0.20	0.30+0.10 -0.20	-	-
	1.60±0.10	0.80±0.10	0.60±0.10	0.50±0.10	0.30±0.10	0.15 min.	-	-
E	2.50±0.20	2.00±0.20	1.20±0.15 1.10±0.15 1.30 max.	0.50±0.20	0.30±0.15	0.30±0.15	-	-
F	2.00±0.15	1.25±0.10	0.95±0.10	0.40	0.30	0.30	0.95	0.35
	2.50±0.20	2.00±0.2	0.90±0.1	1.7±0.2	0.6±0.15	0.5±0.15	0.6±0.15	0.6±0.15
G	2.00±0.15	1.25±0.10	0.45±0.05 0.85±0.05	0.275±0.10	0.60±0.10	0.95±0.10	0.20±0.15	0.25±0.05

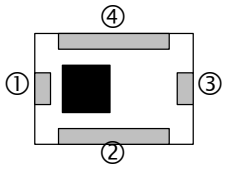
Termination Configuration



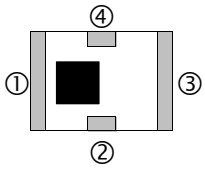
①IN ②GND
③ OUT ④ GND



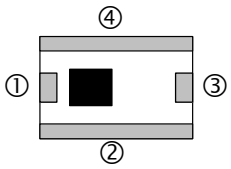
①IN ②GND
③OUT ④GND



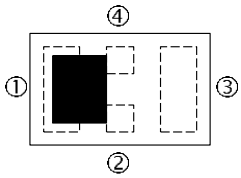
①IN ②GND
③OUT ④GND



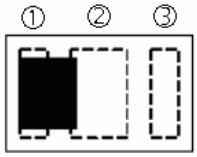
①GND ②IN
③GND ④OUT



①IN ②GND
③OUT ④GND



①IN ②GND
③OUT ④GND



①GND ②IN ③GND
④GND ⑤OUT ⑥ GND

Electrical Specification

Part No.	Pass Band (MHz)	Insertion Loss	VSWR	Attenuation	Figure
MBPF-2520-1G9H6-A3	1893~1920	1.6dB max.	2.0 max.	35dB min. at 1420MHz 25dB min. at 3786~3840MHz 25dB min. at 5676~5760MHz	E
MBPF-2012-2G0H6-A1	1880~2025	1.8 dB max.	2.0 max.	25 dB min. at 2300 ~ 2400 MHz 20 dB min. at 2570 ~ 2620 MHz	C
MBPF-2520-2G3H6-A2	2300~2390	1.6dB max.	2.0 max	30 dB min. at 880 ~ 915 MHz 30 dB min. at 1710 ~ 1785 MHz 24 dB min. at 1850 ~ 1910 MHz 19 dB min. at 1920 ~ 1980 MHz 24 dB min. at 4600 ~ 4780 MHz 22 dB min. at 6900 ~ 7170 MHz	E
MBPF-1005-2G4H6-A2	2400~2500	2.0 dB max.	2.0 max.	25dB min. at 1500~1710 MHz 30dB min. at 4800~5000 MHz	A
MBPF-1608-2G4H6-B1	2400~2500	2.5dB max.	2.0 max.	25dB min. at 860~ 960MHz 20dB min. at 1710~1910MHz 25dB min. at 4800~5000MHz 20dB min. at 7200~7500MHz	B
MBPF-1608-2G4H6-A2	2400~2500	3.0dB max.	2.0 max.	32dB min. at 880~ 915MHz 30dB min. at 915~1250MHz 25dB min. at 1710~1900MHz 15dB min. at 1900~2000MHz 25dB min. at 4800~5000MHz	D
MBPF-1608-2G4H6-B11	2400~2500	1.8 dB max.	2.0 max.	20 dB min. at 3200 MHz 25 dB min. at 4800~5000 MHz	B
MBPF-1608-2G4H6-A15	2400~2500	2.5 dB max.	2.1 max.	29dB min. at 880~960MHz 28dB min. at 1710~1990MHz 4.0dB min. at 2170MHz 28dB min. at 4800~5000MHz 20dB min. at 7200~7500 MHz	B

Part No.	Pass Band (MHz)	Insertion Loss	VSWR	Attenuation	Figure
MBPF-1608-2G4S1-A1	2400~2500	3.0dB max.	2.0 max.	25dB min. at 695~ 800 MHz 20dB min. at 1710~1910 MHz 35dB min. at 3200 MHz 20dB min. at 4800~5000 MHz	B
MBPF-2012-2G4H6-A1	2400~2500	1.8dB max.	2.0 max.	20dB min. at 1200~1300MHz 7dB min. at 2000MHz 5dB min. at 3000MHz 30dB min. at 3600~3800MHz 35dB min. at 4800~5000MHz	C
MBPF-2012-2G4H6-A2	2400~2500	1.8dB max.	2.0 max.	30dB min. at 860~ 960MHz 25dB min. at 1710~1910MHz 25dB min. at 4800~5000MHz 25dB min. at 7200~7500MHz	D
MBPF-2012-2G4H6-A3	2400~2500	1.8dB max.	2.0 max.	30dB min. at 860~ 960MHz 25dB min. at 1710~1910MHz 25dB min. at 4800~5000MHz 25dB min. at 7200~7500MHz	C
MBPF-2012-2G4H6-A4	2400~2500	2.5dB max.	2.0 max.	35dB min. at 860~ 960MHz 30dB min. at 1710~1990MHz 13dB min. at 2110~2170MHz 30dB min. at 4800~5000MHz 25dB min. at 7200~7500MHz	D
MBPF-2012-2G4H6-B5	2400~2500	2.5dB max.	2.0 max.	35dB min. at 824 ~ 960 MHz 38dB min. at 1710 ~ 1910 MHz 25dB min. at 4800 ~ 5000 MHz 20dB min. at 7200 ~ 7500 MHz	D
MBPF-2012-2G4H6-A6	2400~2500	2.0dB max.	2.0 max.	35dB min. at 824~ 960MHz 25dB min. at 1710~1910MHz 25dB min. at 4800~5000MHz 15dB min. at 7200~7500MHz	D
MBPF-2012-2G4H6-A8	2400~2500	1.0dB max.	2.0 max.	28dB min. at 824 ~ 960 MHz 28dB min. at 1570 ~ 1580 MHz 23dB min. at 1710 ~ 1910 MHz 17dB min. at 1920 ~ 1990 MHz 25dB min. at 4800 ~ 5000 MHz 25dB min. at 7200 ~ 7500 MHz	F
MBPF-2012-2G4H6-B9	2400~2500	2.6dB max.	2.0 max.	40dB min. at 880 ~ 960 MHz 38dB min. at 1710~1990 MHz 16dB min. at 2100~2170 MHz 30dB min. at 4800~5000 MHz 25dB min. at 7200~7500 MHz	C
MBPF-2012-2G4H6-C10	2400~2500	2.5 dB max.	2.0 max.	30 dB min. at 880~ 915 MHz 30 dB min. at 1545~1605 MHz 35 dB min. at 1710~1785 MHz 40 dB min. at 1850~1910 MHz 32 dB min. at 1920~1980 MHz 16 dB min. at 2110~2170 MHz 35 dB min. at 4800~4967 MHz 26 dB min. at 5150~6000 MHz 23 dB min. at 7200~7450.5 MHz	G
MBPF-2012-2G4H6-A13	2400~2500	1.8 dB max.	2.0 max.	30 dB min. at 3200 MHz 25 dB min. at 4800~5000 MHz	C

Part No.	Pass Band (MHz)	Insertion Loss	VSWR	Attenuation	Figure
MBPF-2012-2G4H6-D14	2400~2500	1.8 dB max.	2.0 max.	30 dB min. at 824~ 915 MHz 30 dB min. at 1545~1605 MHz 35 dB min. at 1710~1990 MHz 20 dB min. at 2170 MHz 30 dB min. at 4800~5000 MHz	G
MBPF-2012-2G4H6-B14	2400~2500	1.8 dB max.	2.0 max.	30 dB min. at 824 ~ 915 MHz 30 dB min. at 1545 ~ 1605 MHz 35 dB min. at 1710 ~ 1990 MHz 30 dB min. at 2170 MHz 30 dB min. at 4800 ~ 4967 MHz 25 dB min. at 5150 ~ 6000 MHz	G
MBPF-2012-2G4H6-A16	2400~2500	1.2 dB max.	2.0 max.	15 dB min. at 1600 MHz 25 dB min. at 3200 MHz	C
MBPF-2012-2G4H6-A18	2400~2500	1.2 dB max.	2.0 max.	15 dB min. at 1600 MHz 20 dB min. at 3200 MHz 40 dB min. at 4800 ~ 5000 MHz	C
MBPF-2012-2G4H6-A19	2400~2500	1.2 dB max.	2.0 max.	30 dB min. at 800 MHz 20 dB min. at 3200 MHz 25 dB min. at 4800 ~ 5000 MHz 25 dB min. at 7200 ~ 7500 MHz	C
MBPF-2012-2G4S1-A1	2400~2500	2.5dB max.	2.0 max.	35dB min. at 880~ 915MHz 15dB min. at 1710~1910MHz 35dB min. at 3200MHz 22dB min. at 4800~5000MHz 22dB min. at 7200~7500MHz	C
MBPF-2520-2G4H6-G1	2400~2500	2.0dB max.	2.0 max.	45dB min. at 746 ~ 960 MHz 45dB min. at 1570~1785 MHz 40dB min. at 1805~1990 MHz 25dB min. at 2110~2170 MHz 5dB min. at 2750~3000 MHz 15dB min. at 3000~4800 MHz 30dB min. at 4800~5000 MHz 30dB min. at 5150~5850 MHz 20dB min. at 7200~7500 MHz	E
MBPF-2520-2G4H6-A2	2400~2500	1.4dB max.	2.0 max.	30dB min. at 880 ~ 915 MHz 28dB min. at 1710 ~ 1910 MHz 20dB min. at 4800 ~ 5000 MHz	E
MBPF-2520-2G4H6-B2	2400~2500	1.5dB max.	2.0 max.	30dB min. at 860 ~ 960MHz 25dB min. at 1710 ~1910MHz 25dB min. at 4800 ~5000MHz	E
MBPF-2520-2G4H6-A3	2400~2500	2.5dB max.	2.0 max.	40dB min. at 880 ~ 915 MHz 25dB min. at 1710 ~ 1990 MHz 20dB min. at 2100 MHz 35dB min. at 3200 MHz 25dB min. at 4800 ~ 5000 MHz 25dB min. at 7200~7500 MHz z	E
MBPF-2520-2G4S1-A1	2400~2500	2.5dB max.	2.0 max.	35dB min. at 880 ~ 915 MHz 15dB min. at 1710 ~ 1910 MHz 35dB min. at 3200 MHz 22dB min. at 4800 ~ 5000 MHz 22dB min. at 7200 ~ 7500 MHz	E

Part No.	Pass Band (MHz)	Insertion Loss	VSWR	Attenuation	Figure
MBPF-2012-2G5H6-B1	2300~2700	2.0dB max.	2.0 max.	13dB min. at 100 ~ 1800 MHz 20dB min. at 3400 ~7500 MHz	C
MBPF-1608-2G6H6-A1	2500~2700	2.0dB max.	2.0 max.	30dB min. at 806 ~ 915 MHz 25dB min. at 1710 ~ 1910 MHz 8.5dB min. at 3300 ~ 3900 MHz 20dB min. at 4900 ~ 5900 MHz	B
MBPF-2520-2G6H6-A1	2490~2690	2.5dB max.	2.0 max	40dB min. at 880 ~ 915 MHz 35dB min. at 1710 ~ 1990 MHz 30dB min. at 2110 ~2170 MHz 20dB min. at 3880 MHz 25dB min. at 4800 ~ 5380 MHz 25dB min. at 7200 ~ 8070 MHz	E
MBPF-1608-3G5H6-A1	3300~3700	1.8dB max.	2.0 max.	25.5dB min. at 806 ~ 849 MHz 21.5dB min. at 1850 ~ 1910 MHz 24.5dB min. at 2400 ~ 2500 MHz 8.5dB min. at 4900 ~ 5900 MHz	B
MBPF-2012-3G6H6-A1	3300~3900	1.8dB max.	2.0 max.	15dB min. at 100 ~ 2600 MHz 20dB min. at 6000~ 9000MHz	C
MBPF-1005-5G5H6-A2	5150~5850	1.5 dB max.	10 dB min.	20dB min. at 2400~ 2500 MHz 20dB min. at 10300~11700 MHz	A
MBPF-1608-5G5S1-B1	4900~5850	1.7 dB max	2.0 max	19.5dB min. at 1570 ~ 1580 MHz 43.5dB min. at 1710 ~ 1910 MHz 30.5dB min. at 1920 ~ 1990 MHz 21.5dB min. at 2110 ~ 2170 MHz 25dB min. at 9800 ~ 11700 MHz	B
MBPF-1608-5G5S1-A2	5150-5850	1.2dB max.	2.0 max.	30dB min at 2400 ~ 2500 MHz 20dB min. at 10300 ~ 11700MHz	B
MBPF-2012-5G5H6-D1	4900~5850	2.2dB max.	2.0 max.	30 dB min. at 340~1195 MHz 15 dB min. at 2140~3580 MHz 25 dB min. at 6855~7150 MHz 20 dB min. at 8570~8930 MHz	C
MBPF-2012-5G5H6-B3	5150~5850	2.0dB max.	2.0 max.	30dB min. at 2400 ~ 3800 MHz 18dB min. at 10300 ~ 11700 MHz	C
MBPF-2012-5G5H6-C5	5150~5850	3.5dB max.	2.5 max.	35dB min. at 4000 MHz 35dB min. at 4200 MHz 35dB min. at 4600 MHz	C
MBPF-2012-5G7H6-A1	5600~5900	2.0dB max.	2.5 max.	30dB min. at 4900 MHz	C