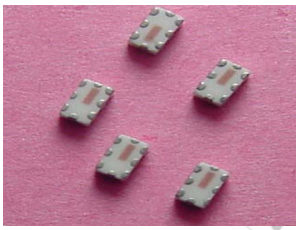
Multilayer Chip Lowpass Filters

Features

- Monolithic structure replacing two inductors and five capacitors



Applications

- 0.8-6 GHz wireless communication systems, including DECT/PACS/PHS/GSM/DCS/PCS phones, WLAN card Bluetooth modules, etc.

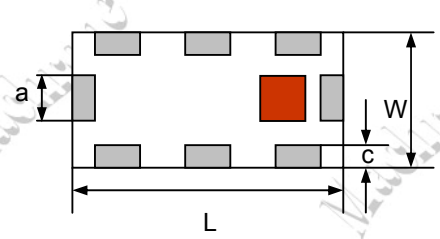
Part Number Systems

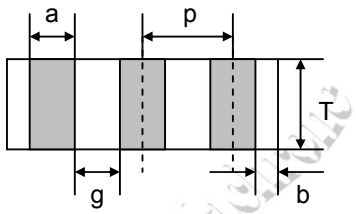
MLF - 2012 – B – 2R4 – FAA - LF

(1) (2) (3) (4) (5) (6)

(1)	**Product series**	**(2)**	**Dimensions (L x W): 2.0 x 1.25 mm**
(3)	**Material code**	**(4)**	**Frequency Range: 2R4 = 2400MHz**
(5)	**Specification code**	**(6)**	**ROHs Compliant**

Shape And Dimensions





Unit: mm

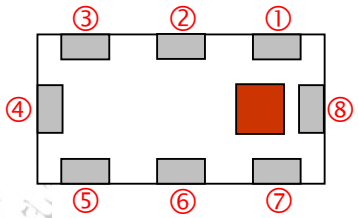
Type	L	W	T	a	b	c	g	p
2012	**2.0 ± 0.1**	**1.25 ± 0.1**	**0.85±0.1**	**0.3 ± 0.1**	**0.2 ± 0.1**	**0.3 + 0.1/-0.2**	**0.35 ± 0.1**	**0.65 ± 0.05**

MLF-2012-Series **ELECTRICAL CHARACTERISTICS**

Part Number	Frequency Range (MHz)	Insertion Loss @ BW (dB)	Att.I @ 2 x fo (dB)	Att.II @ 3 x fo (dB)	Att.I @ 4 x fo (dB)	VSWR @ BW	Power Capacity
MLF-2012-B-2R4-FAA-LF	2400 ~ 2500	0.5 Max	27 Min	25 Min	25 Min	1.8 Max	1W Max

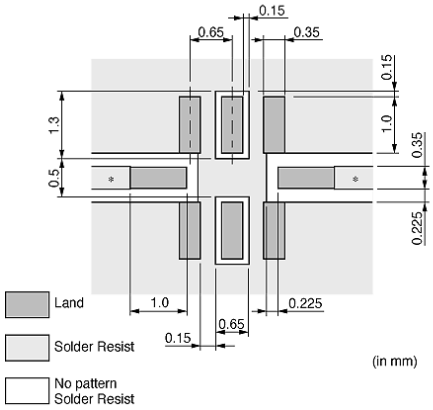
***All specifications are subjected to change without prior notice.**

Terminal Configuration



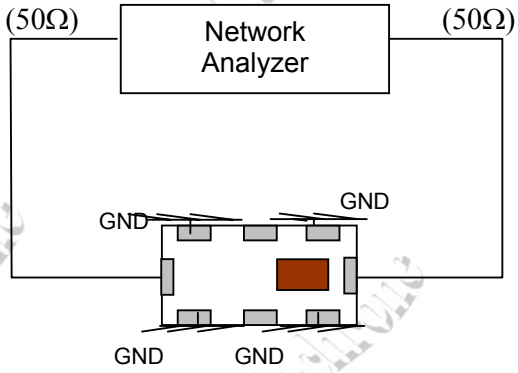
No.	Terminal Name	No.	Terminal Name
1	GND	5	GND
2	NC	6	NC
3	GND	7	GND
4	Out	8	In

Recommended PC Board Pattern (Unit: mm)



* Line width should be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.

Measuring Diagram



Typical Electrical Characteristics (Temperature = 25ºC)

❖ MLF-2012-B-2R4-FAA-LF