



MMIC FILTER

Selection Guide



南京舜特科通信技术有限公司
Sainty-Tech Communications Limited

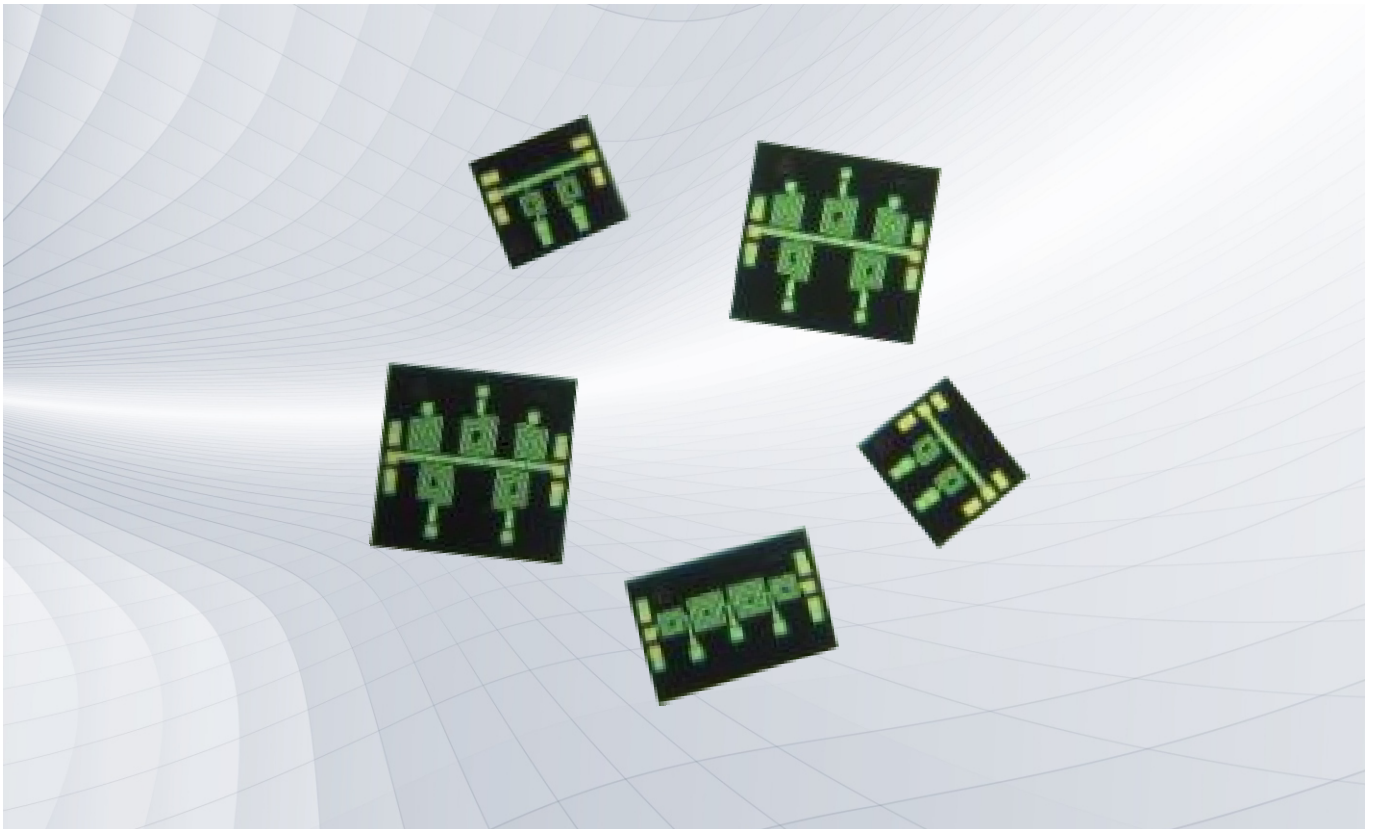
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INTRODUCTION

Monolithic microwave integrated circuit, or MMIC, is a type of integrated circuit (IC) device that operates at microwave frequencies (300 MHz to 300 GHz). These devices typically perform functions such as microwave mixing, power amplification, low-noise amplification, and high-frequency switching. Inputs and outputs on MMIC devices are frequently matched to a characteristic impedance of 50 ohms. This makes them easier to use, as cascading of MMICs does not require an external matching network.

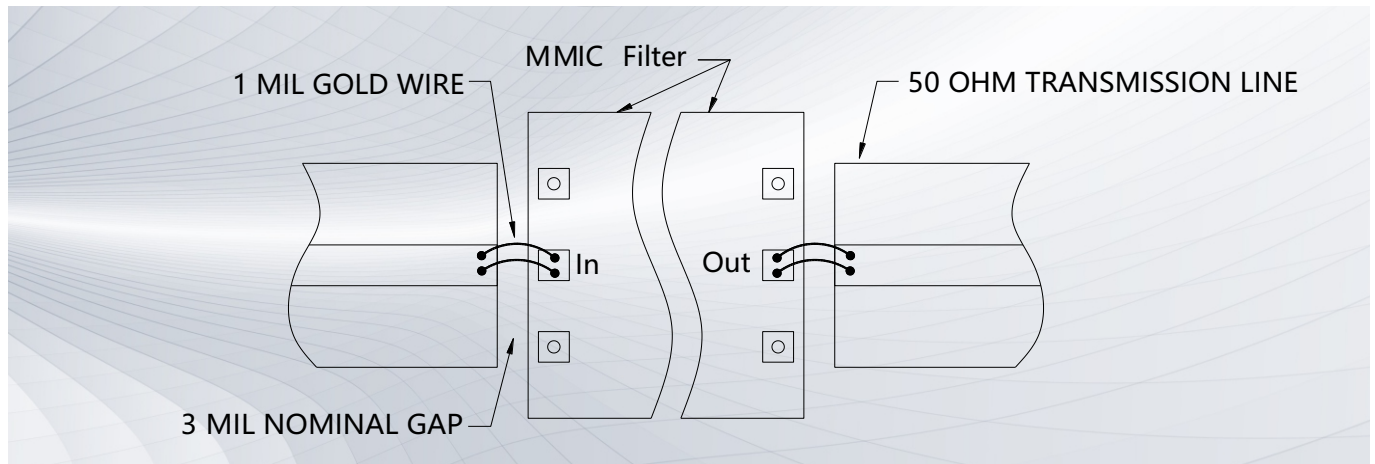
MMIC Filter is a miniature filter fabricated by GaAs precision processing. It is suitable for MCM applications through Au wire bonding. Frequency covers 500MHz to 50GHz with power handling of up to 30dBm.

MMIC filters have small size, good performance, excellent consistency between units and parasitic passband far away from pass bands. They are used in multiple applications including military and defense, commercial wireless, satcom, and radar.



APPLICATION INSTRUCTIONS

1. Recommended Assembly Diagrams



2. The chip is back-metallized and can be die-mounted with AuSn eutectic preforms or with electrically conductive epoxy.
3. The die should be assembled on carriers made of Kovar or Mu-Cu which have similar Coefficient of thermal expansion. (5.8×10^{-6} /) as GaAs.
4. Recommend use of $\Phi 25\mu\text{m}$ Au wire for bonding, which length is around 400 μm .
5. Sinter by AuSn (80/20), which doesn't exceed 300°C within 30 seconds max.
6. Handle the chips in a clean environment. DO NOT attempt to clean the chip using liquid cleaning systems.
7. Handle the chip along the edges with a vacuum collet or with a sharp pair of bent tweezers.
8. The device is sensitive to ESD. ESD protection is required during storage and usage.

Part Number	Type	Low Freq. (GHz)	High Freq. (GHz)	IL (dB)	Rejection (dB)	Dimension (mm)	Datasheet
BWLF-R08	Low Pass	DC	0.08	2.3@0.08GHz	≥20@0.43GHz, ≥40@0.65GHz	2.1×1.8×0.1	
BWLF-R12	Low Pass	DC	0.12	2.3@0.12GHz	≥20@0.46GHz, ≥40@0.71GHz	2.1×1.6×0.1	
PDLF-R12	Low Pass	DC	0.12	3@0.12GHz	≥20@0.24GHz, ≥40@0.4GHz	2.0×1.5×0.15	
BWLF-R16	Low Pass	DC	0.16	2.4@0.16GHz	≥20@0.5GHz, ≥40@0.8GHz	2.1×1.6×0.1	
BWLF-R19	Low Pass	DC	0.19	2.3@0.19GHz	≥20@0.53GHz, ≥40@0.8GHz	2.1×1.4×0.1	
BWLF-R22	Low Pass	DC	0.22	2.3@0.22GHz	≥20@0.6GHz, ≥40@0.9GHz	2.1×1.4×0.1	
PDLF-R3	Low Pass	DC	0.3	2.0@0.3GHz	≥25@0.5GHz, ≥35@0.55GHz	2.0×1.2×0.15	
BWLF-R32	Low Pass	DC	0.32	2.3@0.32GHz	≥20@0.7GHz, ≥40@1.1GHz	2.1×1.4×0.1	
PDLF-R35	Low Pass	DC	0.35	2.8@0.35GHz	≥25@0.5GHz, ≥40@0.55GHz	3×2×0.15	
PDLF-R37	Low Pass	DC	0.37	3.0@0.37GHz	≥25@0.5GHz, ≥40@0.55GHz	3×1.8×0.15	
PDLF-R4G	Low Pass	DC	0.4	1.6@0.4GHz	≥30@0.76GHz	2.0×1.2×0.15	
BWLF-R4	Low Pass	DC	0.4	1.8@0.4 GHz	≥20@0.9GHz, ≥40@1.4GHz	2.1×1.05×0.1	
BWLF-R5	Low Pass	DC	0.5	1.9@0.5GHz	≥20@1.3GHz, ≥40@1.65GHz	2.1×1.05×0.1	
BWLF-R5G	Low Pass	DC	0.5	1.7@0.5GHz	≥20@1.2GHz, ≥40@1.65-6GHz	1.6×1×0.1	
PDLF-R5G	Low Pass	DC	0.51	1.6@0.51GHz	≥20@0.78GHz	2.0×1.2×0.15	
BWLF-R63	Low Pass	DC	0.63	1.5@0.63GHz	≥20@1.4GHz, ≥40@2.1GHz	2.1×1.05×0.1	
BWLF-R8	Low Pass	DC	0.8	1.5@0.8GHz	≥20@1.7GHz, ≥40@2.6GHz	2.1×1.05×0.1	
BWLF-1	Low Pass	DC	1	1.8@1.0GHz	≥20@2.15GHz, ≥40@2.8GHz	2.1×1.05×0.1	
BWLF-1G	Low Pass	DC	1	1.6@1.0GHz	≥20@1.72GHz, ≥40@1.95GHz	1.6×0.8×0.1	
PDLF-1R3G	Low Pass	DC	1.3	2.2@1.3GHz	≥25@1.55GHz, ≥40@1.9GHz	2.4×1.2×0.15	
BWLF-1R5	Low Pass	DC	1.5	1.8@1.5GHz	≥20@2.85GHz, ≥40@3.7GHz	2.1×1.05×0.1	
BWLF-1R5G	Low Pass	DC	1.5	1.4@1.5GHz	≥20@2.6GHz, ≥40@2.95GHz	1.6×0.8×0.1	
BWLF-2	Low Pass	DC	2	1.8@2.0GHz	≥20@3.5GHz, ≥40@4.6GHz	2.1×1.05×0.1	
BWLF-2G	Low Pass	DC	2	1.5@2.0GHz	≥20@3.25GHz, ≥40@3.75GHz	1.6×0.8×0.1	
PDLF-2G	Low Pass	DC	2	1.8@2.0GHz	≥20@2.4GHz, ≥35@2.55GHz	2.4×1.5×0.15	
BWLF-2R5	Low Pass	DC	2.5	1.8@2.5GHz	≥20@4.4GHz, ≥40@5.6GHz	2.1×1.05×0.1	
BWLF-2R5G	Low Pass	DC	2.5	1.6@2.5GHz	≥20@3.9GHz, ≥40@4.2GHz	1.6×0.8×0.1	
PDLF-2R8G	Low Pass	DC	2.8	1.8@2.8GHz	≥20@3.25GHz, ≥40@3.5GHz	2.4×1.2×0.15	
BWLF-3	Low Pass	DC	3	1.7@3.0GHz	≥20@5.55GHz, ≥40@7GHz	1.6×0.8×0.1	
BWLF-3G	Low Pass	DC	3	1.5@3.0GHz	≥20@4.75GHz, ≥40@5.15GHz	1.6×0.8×0.1	
BWLF-3R5	Low Pass	DC	3.5	1.7@3.5GHz	≥20@5.95GHz, ≥40@7.5GHz	1.6×0.8×0.1	
BWLF-3R5G	Low Pass	DC	3.5	1.5@3.5GHz	≥20@5.35GHz, ≥40@5.85GHz	1.6×0.8×0.1	

Part Number	Type	Low Freq. (GHz)	High Freq. (GHz)	IL (dB)	Rejection (dB)	Dimension (mm)	Datasheet
BWLF-4	Low Pass	DC	4	1.7@4.0GHz	≥20@6.6GHz, ≥40@8.5GHz	1.6×0.8×0.1	
BWLF-4G	Low Pass	DC	4	1.7@4.0GHz	≥20@5.75GHz, ≥40@6.25GHz	1.6×0.8×0.1	
BWLF-4R5	Low Pass	DC	4.5	1.7@4.5GHz	≥20@7.5GHz, ≥40@9.7GHz	1.6×0.8×0.1	
BWLF-4R8	Low Pass	DC	4.8	2.5@4.8GHz	≥20@5.8GHz, ≥35@6.5-20GHz	1.6×0.8×0.1	
BWLF-5	Low Pass	DC	5	1.7@5.0GHz	≥20@8.15GHz, ≥40@10.5GHz	1.6×0.8×0.1	
BWLF-5G	Low Pass	DC	5	1.6@5.0GHz	≥20@7.25GHz, ≥40@7.95GHz	1.6×0.8×0.1	
BWLF-5R5	Low Pass	DC	5.5	1.7@5.5GHz	≥20@9GHz, ≥40@11.65GHz	1.6×0.8×0.1	
BWLF-6	Low Pass	DC	6	1.8@6.0GHz	≥20@9.5GHz, ≥40@12.2GHz	1.6×0.8×0.1	
BWLF-6G	Low Pass	DC	6	1.6@6.0GHz	≥20@8.45GHz, ≥40@9.35GHz	1.6×0.8×0.1	
BWLF-7	Low Pass	DC	7	1.7@7.0GHz	≥20@10.75GHz, ≥40@13.4GHz	1.6×0.8×0.1	
BWLF-7G	Low Pass	DC	7	1.4@7.0GHz	≥20@10.15GHz, ≥40@11.15GHz	1.6×0.8×0.1	
BWLF-8	Low Pass	DC	8	1.6@8.0GHz	≥20@12.3GHz, ≥40@15.55GHz	1.6×0.8×0.1	
BWLF-8G	Low Pass	DC	8	1.4@8.0GHz	≥20@11.8GHz, ≥40@13.5GHz	1.6×0.8×0.1	
BWLF-9	Low Pass	DC	9	1.7@9.0GHz	≥20@13.6GHz, ≥40@17.1GHz	1.6×0.8×0.1	
BWLF-9G	Low Pass	DC	9	1.7@9.0GHz	≥20@12.75GHz, ≥40@14.3GHz	1.6×0.8×0.1	
PDLF-9R7G	Low Pass	DC	9.7	2.5@9.7GHz	≥20@10.4GHz, ≥35@10.6GHz	2.0×1.2×0.15	
BWLF-10	Low Pass	DC	10	1.6@10GHz	≥20@14.95GHz, ≥40@18.9GHz	1.6×0.8×0.1	
BWLF-10G	Low Pass	DC	10	1.6@10GHz	≥20@14GHz, ≥40@15.85GHz	1.6×0.8×0.1	
BWLF-11	Low Pass	DC	11	1.6@11GHz	≥20@16.5GHz, ≥40@20.8GHz	1.6×0.8×0.1	
BWLF-11G	Low Pass	DC	11	1.6@11GHz	≥20@15.3GHz, ≥40@17.4GHz	1.6×0.8×0.1	
BWLF-12	Low Pass	DC	12	1.7@12GHz	≥20@17.9GHz, ≥40@22.7GHz	1.6×0.8×0.1	
BWLF-12G	Low Pass	DC	12	1.6@12GHz	≥20@16.6GHz, ≥40@18.8GHz	1.6×0.8×0.1	
BWLF-13	Low Pass	DC	13	1.7@13GHz	≥20@19.4GHz, ≥40@24.5GHz	1.6×0.8×0.1	
BWLF-13G	Low Pass	DC	13	1.6@13GHz	≥20@17.95GHz, ≥40@20.55GHz	1.6×0.8×0.1	
PDLF-13R5	Low Pass	DC	13.5	2@13.5GHz	≥25@17.8GHz, ≥40@19.5GHz	1.6×0.8×0.15	
BWLF-14	Low Pass	DC	14	1.6@14GHz	≥20@21.6GHz, ≥40@27.7GHz	1.6×0.8×0.1	
BWLF-14G	Low Pass	DC	14	1.6@14GHz	≥20@19.4GHz, ≥40@22.1GHz	1.6×0.8×0.1	
BWLF-15	Low Pass	DC	15	1.7@15GHz	≥20@22.4GHz, ≥40@28.9GHz	1.6×0.8×0.1	
BWLF-15G	Low Pass	DC	15	1.7@15GHz	≥20@20.45GHz, ≥40@23.35GHz	1.6×0.8×0.1	
BWLF-16	Low Pass	DC	16	1.8@16GHz	≥20@23.6GHz, ≥40@30.6GHz	1.6×0.8×0.1	
BWLF-16G	Low Pass	DC	16	1.7@16GHz	≥20@21.9GHz, ≥40@25.2GHz	1.6×0.8×0.1	
BWLF-17	Low Pass	DC	17	1.8@17GHz	≥20@25GHz, ≥40@32.4GHz	1.6×0.8×0.1	

Part Number	Type	Low Freq. (GHz)	High Freq. (GHz)	IL (dB)	Rejection (dB)	Dimension (mm)	Datasheet
BWLF-17G	Low Pass	DC	17	1.7@17GHz	≥20@23.2GHz, ≥40@26.6GHz	1.6×0.8×0.1	
BWLF-18	Low Pass	DC	18	1.8@18GHz	≥20@26.5GHz, ≥40@33.4GHz	1.6×0.8×0.1	
BWLF-18G	Low Pass	DC	18	1.7@18GHz	≥20@25.2GHz, ≥40@29.2GHz	1.6×0.8×0.1	
BWLF-18GA	Low Pass	DC	18	2.5@18GHz	≥20@21.5GHz, ≥40@23-35GHz	1.6×1.0×0.1	
BWLF-19	Low Pass	DC	19	1.8@19GHz	≥20@27.9GHz, ≥40@35.5GHz	1.6×0.8×0.1	
BWLF-19G	Low Pass	DC	19	1.7@19GHz	≥20@26.3GHz, ≥40@31.2GHz	1.6×0.8×0.1	
BWLF-20	Low Pass	DC	20	2.0@20GHz	≥20@29.5GHz, ≥40@37.8GHz	1.6×0.8×0.1	
BWLF-20G	Low Pass	DC	20	1.8@20GHz	≥20@27.1GHz, ≥40@31.6GHz	1.6×0.8×0.1	
BWLF-22	Low Pass	DC	22	2.0@22GHz	≥20@33.5GHz, ≥40@38GHz	1.6×0.8×0.1	
BWLF-23G	Low Pass	DC	23	2.2@23GHz	≥20@28GHz, ≥40@29.5GHz	1.6×0.8×0.1	
PDHF-R5G	High Pass	0.5	3	2.0@0.5GHz	≥20@0.2GHz, ≥40@0.05GHz	1.6×0.8×0.15	
BWHF-1G	High Pass	1	8	2.1@1.0GHz	≥20@0.55GHz, ≥40@0.43GHz	1.6×0.8×0.1	
BWHF-2G	High Pass	2	18	2.5@2.0GHz	≥20@1.4GHz, ≥40@1.25GHz	1.6×0.8×0.1	
BWHF-3G	High Pass	3	21	1.7@3.0GHz	≥20@1.82GHz, ≥40@1.62GHz	1.6×0.8×0.1	
BWHF-4G	High Pass	4	26	1.7@4.0GHz	≥20@2.6GHz, ≥40@2.35GHz	1.6×0.8×0.1	
BWHF-5G	High Pass	5	28	1.7@5.0GHz	≥20@3.3GHz, ≥40@3GHz	1.6×0.8×0.1	
BWHF-6G	High Pass	6	28	1.7@6.0GHz	≥20@3.9GHz, ≥40@3.55GHz	1.6×0.8×0.1	
BWHF-7G	High Pass	7	29	1.6@7.0GHz	≥20@4.55GHz, ≥40@4.15GHz	1.6×0.8×0.1	
BWHF-8G	High Pass	8	30	1.7@8.0GHz	≥20@5.45GHz, ≥40@4.95GHz	1.6×0.8×0.1	
BWHF-9G	High Pass	9	31	1.7@9.0GHz	≥20@6.15GHz, ≥40@5.6GHz	1.6×0.8×0.1	
PDHF-10G	High Pass	10	18	3.5@10GHz	≥10@9.5GHz	1.6×0.8×0.15	
BWHF-10G	High Pass	10	32	1.9@10.0GHz	≥20@7.4GHz, ≥40@6.8GHz	1.6×0.8×0.1	
BWHF-12G	High Pass	12	35	1.7@12.0GHz	≥20@8.3GHz, ≥40@7.6GHz	1.6×0.8×0.1	
PDHF-13R75	High Pass	13.8	25	2.0@13.8GHz	≥25@9.5GHz, ≥35@6.0GHz	1.6×0.8×0.15	
PDHF-14	High Pass	14	18	1.5@14.0GHz	≥25@9.6GHz	1.6×0.8×0.15	
BWHF-14G	High Pass	14	36	1.7@14.0GHz	≥20@10GHz, ≥40@9.2GHz	1.6×0.8×0.1	
BWHF-16G	High Pass	16	38	1.8@16.0GHz	≥20@11.4GHz, ≥40@10.4GHz	1.6×0.8×0.1	
BWHF-18G	High Pass	18	39	2.2@18.0GHz	≥20@13.7GHz, ≥40@12.9GHz	1.6×0.8×0.1	
BWHF-20G	High Pass	20	40	1.9@20.0GHz	≥20@14.7GHz, ≥40@13.7GHz	1.6×0.8×0.1	
BWHF-23G	High Pass	23	30	2.3@23.0GHz	≥40@100M ~ 16GHz	1.6×0.8×0.1	
PDHF-9R7G	High Pass	23	30	2.3@23GHz	≥40@100M ~ 16GHz	1.6×1.2×0.15	
BWHF-24G	High Pass	24	34	2.3@24.0GHz	≥40dB@100M ~ 16.5GHz	1.6×0.8×0.1	

Part Number	Type	Low Freq. (GHz)	High Freq. (GHz)	IL (dB)	Rejection (dB)	Dimension (mm)	Datasheet
BWHF-28G	High Pass	28	40	2.3@28.0GHz	≥40dB@100M ~ 19.5GHz	1.6×0.8×0.1	
BWHF-33G	High Pass	33	41	2.3@33.0GHz	≥40dB@100M ~ 21GHz	1.6×0.8×0.1	
BWHF-36G	High Pass	36	41	2.3@36GHz	≥40dB@100M ~ 25GHz	1.6×0.8×0.1	
PDBF-R105/R145-4C5	Band Pass	0.11	0.135	5.5@0.123GHz	≥40@40MHz & 200 MHz	3.0×2.1×0.15	
PDBF-R2/R25-4C5	Band Pass	0.2	0.25	7.0@0.225GHz	≥40@120 MHz & 340 MHz	3.0×2.1×0.1	
PDBF-R21/R39-4C3	Band Pass	0.21	0.38	3.0@0.3GHz	≥35@80MHz & 600 MHz	2.5×1.2×0.15	
PDBF-R24/R36-3C2	Band Pass	0.25	0.35	3.0@0.3GHz	≥35@80MHz & 600 MHz	3.0×2.0×0.15	
PDBF-R365/R385-4C5	Band Pass	0.365	0.385	5.5@0.375GHz	≥35@220 MHz & 500MHz	3.0×1.4×0.15	
PDBF-R38/R58-4C2	Band Pass	0.4	0.55	3.5@0.48GHz	≥35@200MHz & 800MHz	2.5×1.5×0.15	
PDBF-R425/R475	Band Pass	0.44	0.47	7.0@0.46GHz	≥30@0.34 GHz, ≥30@0.56 GHz	3.5×1.7×0.15	
PDBF-R42/R72	Band Pass	0.45	0.7	2.5@0.575GHz	≥30@0.3GHz, ≥30@0.9GHz	4.2×2.8×0.15	
PDBF-R45/1R8	Band Pass	0.45	1.8	2.0@1.125GHz	≥30@0.2GHz, ≥30@2.4GHz	4.6×1.75×0.15	
PDBF-R45/R75-6C3	Band Pass	0.5	0.7	2.5@0.6GHz	≥25@0.36GHz, ≥30@0.9GHz	4.2×2.8×0.15	
BWBF-R525/R725	Band Pass	0.55	0.7	4.5@0.63GHz	≥40@0.3&1GHz	2.8×1.5×0.1	
PDBF-R62/R82-6C4	Band Pass	0.65	0.8	4.5@0.725GHz	≥35@1GHz, ≥35@0.5GHz	3.5×2.2×0.15	
PDBF-R8/1R2-6D3	Band Pass	0.8	1.2	3.5@1.0GHz	≥40@0.3& 1.8GHz	3.0×0.9×0.15	
PDBF-R7/2-6C2	Band Pass	0.85	1.7	1.5@1.23GHz	≥30@0.55& 2.3GHz	4.5×1.5×0.15	
PDBF-R95/1R45-7C4	Band Pass	0.95	1.45	5.0@1.2GHz	≥30@0.6& 2.0 GHz	2.8×1.2×0.15	
PDBF-R95/1R45-7C2	Band Pass	0.95	1.45	3.0@1.2GHz	≥30@0.6& 2.0 GHz	2.5×1.2×0.15	
PDBF-1/1R4-4C3	Band Pass	1	1.4	3.6@1.2GHz	≥40@0.6& 2.0 GHz	2.5×1.1×0.15	
PDBF-1R015/1R235-8C5	Band Pass	1.02	1.23	4.5@1.22GHz	≥30@0.7GHz, ≥35@1.5GHz	3.2×1.6×0.15	
PDBF-1R05/1R45-8C3	Band Pass	1.05	1.45	2.5@1.25GHz	≥30@0.75GHz, ≥35@1.7GHz	4.8×1.2×0.15	
PDBF-1R1/1R9-7C3	Band Pass	1.1	1.85	2.5@1.5GHz	≥40@0.5&2.5GHz	2.8×1.2×0.15	
PDBF-1R2/1R6-6D3	Band Pass	1.2	1.6	3.0@1.4GHz	≥40@0.6&2.1GHz	3.0×1.0×0.15	
PDBF-1R275/1R475-6C4	Band Pass	1.27	1.48	4.5@1.38GHz	≥40@0.95&1.95 GHz	3.0×2.0×0.15	
PDBF-1R3/2R3-5C2	Band Pass	1.3	2.3	2.5@1.8GHz	≥40@0.75&3.2GHz	2.8×1.2×0.15	
PDBF1R8/1-16B2	Band Pass	1.3	2.3	3.0@1.8GHz	≥25@1.1&2.5GHz	4.8×2.2×0.15	
BWBF-1R3/2R3	Band Pass	1.35	2.25	2.7@1.8GHz	≥35@0.85GHz, ≥20@2.75GHz	1.2×2.2×0.1	
PDBF-1R4/2R2-8C3	Band Pass	1.45	2.15	3.5@1.8GHz	≥25@1.2&2.4GHz	4.8×2.2×0.15	
PDBF-1R4/2R42-16B2	Band Pass	1.45	2.4	3.0@1.83GHz	≥25@1.1&2.7GHz	4.8×2.2×0.15	
PDBF-1R6/2-4C3	Band Pass	1.6	2	5.0@1.8GHz	≥40@0.7 & 2.0 GHz	1.5×1.5×0.15	
PDBF-1R6/2-6D3	Band Pass	1.6	2	3.5@1.8GHz	≥25@1.1&2.4GHz	3.0×1.0×0.15	

Part Number	Type	Low Freq. (GHz)	High Freq. (GHz)	IL (dB)	Rejection (dB)	Dimension (mm)	Datasheet
PDBF-1R6/2R9-16C3	Band Pass	1.7	2.7	3.5@2.2GHz	≥25@1.3 & 3.2 GHz	4.4×2×0.15	
PDBF-1R65/1R95-5C6	Band Pass	1.7	1.9	5.0@1.8GHz	≥30@1.35GHz, ≥30@2.4GHz	2.4×1.4×0.15	
PDBF2R4/R54-16B2	Band Pass	2.2	2.5	2.5@2.35GHz	≥25@1.9&3.0GHz	4.8 × 2.2 × 0.15	
BWBF-2R92/3R02-5D6	Band Pass	2.92	3.02	5.5@2.97GHz	≥35@0.85GHz, ≥20@2.75GHz	2.3×4×0.1	
BWBF-3R1/3R5	Band Pass	3.1	3.5	2.7@3.3GHz	≥35@2.5&4.2GHz	1.6×2.3×0.1	
PDBF-3/4-5D4	Band Pass	3.2	3.9	2.0@3.5GHz	≥30@2.6 GHz, ≥35@4.7 GHz	2×3×0.15	
BWBF-4/7R5-7C3	Band Pass	4.5	7	2.5@5.75GHz	≥30@2.8GHz&9GHz	1.6×0.8×0.1	
PDBF-4R5/5R1-5D4	Band Pass	4.5	5.1	2.5@4.8GHz	≥40@3.8&5.8GHz	2.7×1.6×0.15	
BWBF-5/13-7C2	Band Pass	5	13	3.0@9GHz	≥40@3.3&16.5GHz	1.5×0.9×0.1	
BWBF-5/5R6	Band Pass	5.05	5.45	6.5@5.25GHz	≥40@4.5&6.2GHz	2.1×1.5×0.1	
PDBF-5R25/5R75-5D3	Band Pass	5.25	5.75	3.0@5.5GHz	≥30@4.8&6.3 GHz	2.3×2.0×0.15	
PDBF-5R25/5R85-5D2	Band Pass	5.25	5.8	2.5@5.53GHz	≥35@4.7&6.35GHz	2.9×2.9×0.15	
PDBF-5R25/5R85-5D3	Band Pass	5.25	5.85	3@5.55GHz	≥32@4.8GHz, ≥32@6.33GHz	2.4×4×0.15	
BWBF-7/9	Band Pass	7	9	2.7@8GHz	≥40@6GHz, ≥30@10.05GHz	1.9×1.75×0.1	
BWBF-8/12-5E2	Band Pass	8	11.7	2.5@9.85GHz	≥40@5.6&16.5GHz	1.6×1.1×0.1	
BWBF-8/12	Band Pass	8	12	1.7@10GHz	≥25@3.9GHz, ≥40@14.8GHz	1.05×1.35×0.1	
BWBF-8R2/10	Band Pass	8.2	10	2.8@9.1GHz	≥40@6.95GHz, ≥30@11.4GHz	1.9×1.5×0.1	
BWBF-9R2/11	Band Pass	9.2	11	3.3@10.1GHz	≥40@7.95&12.7GHz	1.9×1.5×0.1	
BWBF-10/10R5	Band Pass	10	10.5	2.5@10.25GHz	≥40@9.15GHz, ≥30@12.6GHz	3.0×3.0×0.1	
PDBF-10/11-5D3	Band Pass	10.1	11.2	2.2@10.65GHz	≥30@9&12.5GHz	2.25×1×0.15	
BWBF-10R2/12	Band Pass	10.2	12	3.5@11.1GHz	≥40@8.85GHz, ≥30@13.7GHz	1.9×1.25×0.1	
BWBF-11R2/13	Band Pass	11.2	13	3.5@12.1GHz	≥40@9.8GHz, ≥30@14.65GHz	1.9×1.25×0.1	
PDBF-12/13-5D3	Band Pass	12	13	2.5@12.5GHz	≥30@10.8&14.3GHz	2.25×1×0.15	
PDBF-12/16	Band Pass	12	15.8	2.5@13.9GHz	≥40@10GHz, ≥30@18GHz	1.8×1.0×0.15	
BWBF-12/16-7C3	Band Pass	12	16	2.5@14GHz	≥40@8.5GHz&21GHz	1.6×0.8×0.1	
PDBF-13/15-5D3	Band Pass	13	15	3.0@14GHz	≥30@11.5&16.5GHz	3.2×1.6×0.15	
BWBF-13R4/16R4-7C3	Band Pass	13	16.3	3.0@14.65GHz	≥35@10& 19.8GHz	1.6×0.8×0.1	
BWBF-14R31/15R31	Band Pass	14.31	15.31	4.5@14.81GHz	≥40@12.7 & 16.9GHz	1.8×1.5×0.1	
PDBF-15/16-5D3	Band Pass	15	16	2.6@15.5GHz	≥30@13.5&17.5GHz	2.25×1×0.15	
PDBF-15R7/17R7-5D2	Band Pass	15.7	17.7	3.2@16.7GHz	≥35@14.4GHz, ≥23@18.9GHz	3.2×1.6×0.15	
PDBF-16/20	Band Pass	16	20	2.0@18GHz	≥25@13GHz, ≥40@23GHz	2.5×2×0.15	
BWBF-16R5/17R5	Band Pass	16.5	17.5	6.5@17GHz	≥40@15.2 &18.6GHz	2.1×1.5×0.1	

Part Number	Type	Low Freq. (GHz)	High Freq. (GHz)	IL (dB)	Rejection (dB)	Dimension (mm)	Datasheet
PDBF-16R5/17R5-5D3	Band Pass	16.5	17.5	4.0@17GHz	≥30@15&19.1GHz	2.4×1.2×0.15	
BWBF-17R4/19R4	Band Pass	17.4	19.4	3.0@18.4GHz	≥40@14&21GHz	2.71×1.78×0.1	
BWBF-21R5/26R7	Band Pass	21.5	26.7	2.5@24.1GHz	≥20@19.1&29.4GHz, ≥40@18.3&31.2GHz	2.0×1.2×0.1	
BWBF-24/32	Band Pass	24	31	2.0@27.5GHz	≥40@10&37GHz	1.6×1.4×0.1	
BWBF-26/28R5	Band Pass	26	28.5	2.8@27.25GHz	≥40@23.5GHz, ≥30@30.8GHz	1.6×1.3×0.1	
PDBF33/35-6B2	Band Pass	31	35	2.5@33GHz	≥35@23&40GHz	2.4×1.6×0.15	



CONTACT US

-  Address: Buliding 5-1004,Zijin R&D Center,No.89 Shengli Road,Jiangning,Nanjing 211100,China
-  Tel: +86 (25) 52635773
-  Email: sales@sainty-tech.com
-  Fax: +86 (25) 52632557
-  Website: www.sainty-tech.com