



MMIC Filter Bank

Selection Guide

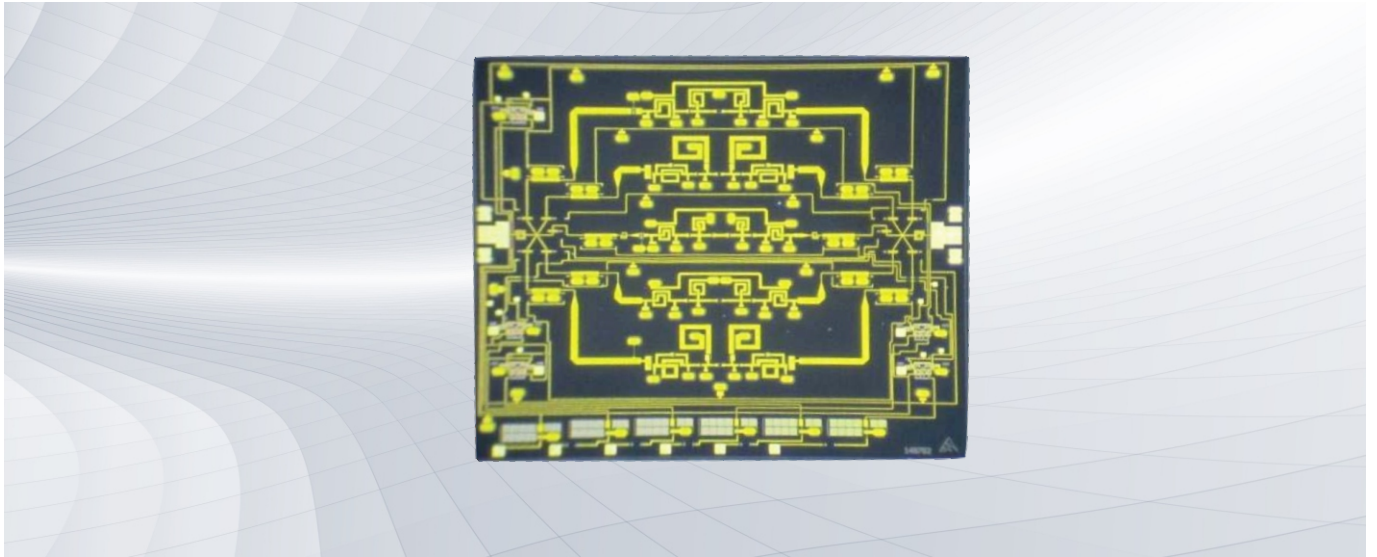
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INTRODUCTION









Filter Bank is an array of bandpass filters that split the input signal into a set of analysis signals, each one carrying a single frequency sub-band of the original signal. In other words, Filter Bank is a set of bandpass filters combination with each filter centered at a different frequency.









MMIC Filter bank is a miniature filter bank fabricated by GaAs precision processing. It is suitable for MCM applications through Au wire bonding. Frequency covers 500MHz to 40GHz or higher. And it has 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.











Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq.(GHz)	Pass Band IL(dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Swich Type	Datasheet
BWSBF-R1/20-5A	0.1	20	0.1-0.5	≤8.5	12	35@1GHz	4.4×4.2×0.1	FET	
			0.1-0.9	≤12.0	12	35@1.9GHz			
			0.1-1.9	≤12.0	12	30@2.8GHz			
			0.1-4.5	≤11.0	12	30@5.8GHz			
			THRU	10±1@4.5GHz	12	-			
			(0.1-20)	5±1@20GHz	-	-			
BWSBF-R1/20-5B	0.1	20	DC-0.5	≤8.0	12	15@0.9GHz,30@1.5GHz	4.4×4.2×0.1	FET	
			DC-1.0	≤8.0	12	15@1.5GHz,30@2.0GHz			
			DC-2.3	≤8.0	12	15@3.0GHz,30@4.6GHz			
			DC-6.0	≤8.0	12	10@6.9GHz,30@12.0GHz			
			THRU	8±1@6GHz	12	-			
			(DC-20)	5±1@20GHz	-	-			
PDSBF-R2/3-6	0.2	3	0.2-0.3	≤8.0	12	35@0.07&0.45GHz	5.0×6.0×0.15	FET	
			0.3-0.45	≤8.0	12	35@0.12&0.65GHz			
			0.45-0.7	≤9.0	12	35@0.15&1GHz			
			0.7-1.1	≤9.0	12	35@0.3&1.5GHz			
			1.1-1.8	≤9.0	12	35@0.4&2.3GHz			
			1.8-3	≤8.0	12	35@0.65&3.7GHz			
BWSBF3-R38/R86-4C6	0.38	0.86	0.38-0.52	≤6.5	10	30@0.25&0.76GHz	4.5×4.5×0.1	FET	
			0.5-0.67	≤6.5	10	30@0.33&1GHz			
			0.62-0.86	≤6.5	10	30@0.42&1.24GHz			
PDSBF5-R4/2R7-5C4	0.4	2.7	0.4-0.7	≤7.5	10	10@0.3GHz,20@0.9GHz	5.0×4.5×0.15	FET	
			0.5-0.9	≤7.5	10	15@0.3GHz,25@1.2GHz			
			0.7-1.2	≤7.5	10	15@0.5GHz,15@1.5GHz			
			1-1.8	≤7.5	10	10@0.8GHz,20@2.1GHz			
			1.6-2.7	≤7.5	10	10@1.3GHz,20@3.2GHz			
BWSBF-R65/3-5	0.65	3	0.65-0.95	≤7.7	12	30@0.48&1.3GHz	5.3×5.8×0.1	FET	
			0.89-1.4	≤9.0	12	30@0.7&1.78GHz			
			1.34-2	≤7.7	12	30@1&2.68GHz			
			1.94-3	≤7.3	12	30@1.5&3.6GHz			







Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq.(GHz)	Pass Band IL(dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Swich Type	Datasheet
PDSBF7-0R8/18R0-5D6	0.8	18	0.8-1.4	≤8.0dB	10	45@DC-0.4GHz,50@1.9GHz	5.0×4.7×0.15	FET	
			1.25-2.15	≤8.5dB	10	45@DC-0.8GHz,50@2.8GHz			
			1.9-3.1	≤8.0dB	10	40@DC-1.0GHz,45@3.9GHz			
			2.7-4.6	≤8.5dB	10	40@DC-1.6GHz,50@5.6GHz			
			4.2-6.4	≤9.5dB	10	40@DC-2.9GHz,40@7.7GHz			
			6-10	≤9.5dB	10	50@DC-4.5GHz,48@12.1GHz			
			9.9-18	≤10.5dB	10	40@DC-6.7GHz,35@20.5GHz			
BWSBF4-R8/3-7C5	0.8	3	0.8-1.2	≤6.5	10	30@0.55&1.6GHz	4.5×4.5×0.1	FET	
			1.1-1.6	≤6.5	10	30@0.75&2.2GHz			
			1.5-2.2	≤6.5	10	30@1.05&3GHz			
			2-3	≤6.5	10	30@1.45&4GHz			
BWSBF-R8/2R2-3	0.8	2.2	0.8-1.2	≤6.0	12	20@0.62&1.55GHz	4.2×3.5×0.1	FET	
			1.1-1.6	≤5.5	12	20@0.85&2.05GHz			
			1.5-2.2	≤5.5	12	20@1.15&2.65GHz			
BWSBF-R8/18-7A	0.8	18	0.8-3	≤8	12	27@4GHz	4.6×4.2×0.15	FET	
			2-3.5	≤8.5	12	20@1.65&4.18GHz,30@1.5&4.9GHz			
			2.5-4.3	≤8.5	12	20@2.05&5.14GHz,30@1.9&5.8GHz			
			3.3-5.5	≤8.5	12	20@2.75&6.67GHz,30@2.6&6.9GHz			
			4.5-7.5	≤9	12	20@3.8&9.2GHz,30@3.6GHz			
			6.5-11	≤8.5	12	20@5.5&12.9GHz,30@5.3&13GHz			
			10-18	≤9	12	20@8.3&21.3GHz,30@7.5&21.5GHz			
BWSBF5-R8/18-7C8	0.8	18	0.8-5	≤7.0	10	40@6.5-10GHz&0.05-0.30GHz	4.5×4.5×0.1	FET	
			5-9	≤10.5	10	40@11-15GHz&2-3.5GHz			
			8-12	≤10.5	10	40@14-18GHz&2-6GHz			
			11-15	≤10.5	10	40@5-9GHz&19-22GHz			
			14-18	≤10.5	10	40@8-11.8GHz&22-25GHz			
BWSBF-1R5/8R4-5	1.5	8.4	1.5-2.5	≤11.0	12	20@1.05&3.0GHz,30@0.9&3.1GHz	5.5×4.5×0.1	FET	
			2.3-3.5	≤11.0	12	20@1.45&4.45GHz,30@1.2&4.7GHz			
			3.0-5.0	≤11.0	12	20@2.25&5.85GHz,30@2.1&6.3GHz			
			4.5-6.5	≤10.5	12	20@3&8.7GHz,40@2.4&9.6GHz			
			6-8.4	≤11.0	12	20@4.2&10.3GHz,40@3.9&10.8GHz			










Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq.(GHz)	Pass Band IL(dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Swich Type	Datasheet
BWSBF-2/6-4	1.5	7	1.5-3.8	≤6.0	12	20@1&4.6GHz,40@0.78&5.4GHz	4.35×3.4×0.1	PIN	
			2.9-4.6	≤6.2	12	20@2.1&5.35GHz,40@1.83&5.75GHz			
			3.8-5.5	≤6.2	12	20@2.95&6.4GHz,40@2.44&6.87GHz			
			4.6-7	≤6.2	12	20@3.89&7.9GHz,40@3.7&8.32GHz			
BWSBF-2/8-4	1.6	8.2	1.6-3.2	≤5.4	12	20@1&3.8GHz,40@0.82&4.1GHz	4.35×3.4×0.1	PIN	
			2.6-4.9	≤5.6	12	20@1.64&5.91GHz,40@1.38&6.7GHz			
			4.0-6.7	≤5.0	12	20@3.0&7.8GHz,40@2.78&8.35G			
			6.0-8.2	≤4.8	12	20@4.85&9.65GHz,40@4.5&10.25GHz			
PDSBF6-1R7/12R3	1.7	12.3	1.7-2.65	≤8	12	20@0.98&3.36GHz	5.5×5×0.15	FET	
			2.05-3.55	≤8	12	20@0.92&4.67GHz			
			2.95-4.85	≤8	12	20@1.52&6.28GHz			
			4.25-6.55	≤8	12	20@2.52&8.3GHz			
			5.95-8.95	≤8	12	20@3.7&11.2GHz			
			8.35-12.3	≤8	12	20@6.35&14.5GHz			
BWSBF3-1R9/6R8-9C8	1.9	6.8	1.9-3.4	≤7.5	10	40@0.9&4.5GHz	4.5×4.5×0.1	FET	
			2.6-4.7	≤7.5	10	40@1.5&6GHz			
			3.9-6.8	≤7.5	10	40@2.9&8GHz			
PDSBF4-2/3-5C8	2	3	2.00-2.25	≤8.5	12	20@1.75GHz,25@2.75GHz	4.0×4.5×0.15	FET	
			2.25-2.50	≤8.5	12	20@2.00GHz,25@3.00GHz			
			2.50-2.75	≤8.5	12	20@2.25GHz,25@3.25GHz			
			2.75-3.00	≤8.5	12	20@2.50GHz,25@3.50GHz			
BWSBF-2/6R5-4	2	6.5	2.0-3.0	≤6.5	12	20@1.6&3.55GHz,40@1.4&3.7GHz	4.0×3.5×0.1	FET	
			2.8-3.9	≤6.0	12	20@2.3&4.7GHz,40@2&5GHz			
			3.6-5	≤6.0	12	20@2.95&6.05GHz,40@2.5&6.7GHz			
			4.6-6.5	≤6.0	12	20@3.75&7.6GHz,40@3&7.9GHz			
BWSBF-2/6R8-4	2	6.8	2-3	≤6.0	12	20@1.55&3.6GHz,40@1.3&3.8GHz	4.0×3.5×0.1	FET	
			2.8-3.8	≤6.0	12	20@2.25&4.65GHz,40@1.9&4.95GHz			
			3.8-5.2	≤6.0	12	20@2.9&6.3GHz,40@2.5&7GHz			
			5.0-6.8	≤6.0	12	20@4&8GHz,40@3.2&8.4GHz			
BWSBF-2/18-5	2	18	2-3.5	≤8.5	15	30@1.2&4.5GHz	4.7×4.5×0.1	FET	
			3-5	≤8.5	15	30@2.1&@6.3GHz			
			4.5-7.5	≤8.5	15	30@3.4&8.9GHz			
			7-11.5	≤9	15	30@5.5&13.8GHz			
			11-18	≤8.5	15	30@8.8&21.5GHz			









Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq.(GHz)	Pass Band IL(dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Switch Type	Datasheet
BWSBF5-2/6-9C9	2.2	6	2.2-2.8	≤9.5	12	40@0.5-1.5GHz&3.5-7GHz	5.0×4.5×0.1	FET	
			3.2-3.8	≤9.5	12	40@0.5-2.4GHz&4.7-7GHz			
			4.2-4.8	≤9.5	12	40@0.5-3.3GHz&5.8-7GHz			
			5.2-5.8	≤9.5	12	40@0.5-4.2GHz&6.8-7GHz			
			2-6	≤2.5	12	-			
PDSBF4-2R7/3R5-5D7	2.7	3.5	2.75-3	≤8	10	35dBc@2.4GHz,30dBc@3.3GHz	5×5×0.15	FET	
			2.95-3.25	≤8	10	35dBc@2.65GHz,28dBc@3.55GHz			
			3.25-3.5	≤8	10	35dBc@2.9GHz,25dBc@3.8GHz			
PDSBF3-3/5	2.85	5.15	2.85-3.15	≤6.0	12	35@2.4&3.6GHz	5.5×5.0×0.15	FET	
			3.85-4.15	≤6.0	12	30@3.4&4.6GHz			
			4.85-5.15	≤6.0	12	30@4.4&5.6GHz			
PDSBF4-3/4-4C8	3	4	3-3.25	≤9	12	15@2.75GHz,25@3.75GHz	4.0×4.5×0.15	FET	
			3.25-3.5	≤9	12	15@3GHz,25@4GHz			
			3.5-3.75	≤9	12	15@3.25GHz,25@4.25GHz			
			3.75-4	≤9	12	13@3.5GHz,25@4.5GHz			
BWSBF-3/10-4	3	10	3-4.8	≤6.5	12	20@1.9&6.5GHz,40@1.2&8.5GHz	3.6×3.3×0.1	FET	
			4.3-6.5	≤7.0	12	20@2.7&7.8GHz,40@1.7&8.8GHz			
			6.0-8.0	≤7.5	12	20@4.85&10GHz,40@4.4&13.2GHz			
			7.5-10	≤7.0	12	20@5.8&13GHz,40@5.2&17.5GHz			
PDSBF-3/20-4	3	20	3-5	≤10.0	12	20@1.8&5.9GHz,30@1.3&6.1GHz	4.0×3.0×0.15	FET	
			5-8	≤9.0	12	20@3&9.5GHz,30@2.5&9.8GHz			
			8-13	≤10.0	12	20@6.6&15.2GHz,30@6.3&15.5GHz			
			13-20	≤10.0	12	20@9.4&24.4GHz,30@8.4&24.9GHz			
BWSBF4-3/9R8-6C6	3	9.8	3-4	≤7	12	30@6-9GHz,35@11-16GHz	4.5×4.5×0.1	FET	
			4-5.6	≤7	12	30@8-10GHz,35@11-18GHz			
			5.6-8.0	≤7	12	30@11-12GHz,35@13-20GHz			
			7.8-9.8	≤7	12	18@11-13GHz,35@14-22GHz			
PDSBF4-3R27/4R07-5D6	3.27	4.07	3.27-3.57	≤8	12	32@2.87&3.97GHz	5×4.5×0.15	FET	
			3.52-3.82	≤8	12	32@3.12&4.22GHz			
			3.77-4.07	≤8	12	32@3.37&4.47GHz			
BWSBF4-4R5/13R5-5C7	4.5	13.5	4.5-7.5	≤9.0	12	40@3.5&9.5GHz	4.5×4.0×0.1	PIN	
			6.5-9.5	≤9.0	12	40@5&12GHz			
			8.5-11.5	≤9.0	12	40@6.5&14.5GHz			
			10.5-13.5	≤9.0	12	40@8&17GHz			










Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq.(GHz)	Pass Band IL(dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Swich Type	Datasheet
PDSBF4-5/13-5D6	5	13	5-7	≤8.0	12	40@3.4&8.6GHz	5×4.5×0.15	FET	
			7-9	≤8.0	12	40@5.4&10.6GHz			
			9-11	≤8.0	12	35@7.4&12.6GHz			
			11-13	≤8.0	12	35@9.4&14.6GHz			
BWSBF4-5/18-7C	5	18	5-9	≤11.5	12	40@11-15&2-3.5GHz	4.2×3.2×0.1	FET	
			8-12	≤10	12	40@14-18&2-6GHz			
			11-15	≤10	12	40@5-9&19-22GHz			
			14-18	≤10	12	40@8-11&22-25GHz			
PDSBF4-5R05/7R35-5D8	5	7.35	5.0-5.5	≤10.5	12	30@4.4&6.1GHz	4.5×4.5×0.15	FET	
			5.45-6.05	≤10.5	12	30@4.8&6.6GHz			
			6.0-6.65	≤10.5	12	30@5.2&7.4GHz			
			6.6-7.35	≤10.5	12	30@5.7&8.1GHz			
BWSBF-6/12-5	6	12	6-8	≤12.5	12	30@3.5&11.5GHz	4×3.6×0.1	FET	
			8-9	≤12.5	12	30@6&11.4GHz			
			9-10	≤12.5	12	30@7&12GHz			
			10-11	≤12.5	12	30@8.2&12.8GHz			
			11-12	≤12.5	12	30@9.4&14.6GHz			
BWSBF-6/18-4	6	18	6-8	≤6.0	12	20@4.7&10GHz,40@3.8&10.8GHz	3.8×3.2×0.1	FET	
			7.5-10	≤7.0	12	20@6&12.1GHz,40@5.7&12.8GHz			
			9.5-13	≤7.5	12	20@7.7&15.2GHz,30@7.4&15.5GHz			
			12.5-18	≤8.5	12	20@10.2&20.3GHz,40@9.5&21GHz			
BWSBF4-6/18-9C8	6	18	6-10	≤9.5	10	40@DC-4.6GHz&12-20GHz	4.5×4.5×0.1	FET	
			8-14	≤9.5	10	40@DC-6.4GHz&16.5-24GHz			
			12-18	≤9.5	10	40@DC-9.6GHz&22-24GHz			
			6-18(HPF)	≤9.5	10	40dBc@DC-4.6GHz			
PDSBF4-6R5/9R5	6.5	9.5	6.5-8	≤8.5	12	15@5.7&8.8GHz	4×3.8×0.15	FET	
			7-8.5	≤8.5	12	15@6.2&9.3GHz			
			7.5-9	≤8.5	12	15@6.7G&9.8GHz			
			8-9.5	≤8.5	12	15@7.2&10.3GHz			
PDSBF4-6R85/10R15-5D7	6.85	10.15	6.85-7.9	≤7.5	10	40@5.8&9.3GHz	5.5×4.5×0.15	FET	
			7.6-8.65	≤7.5	10	40@6.5&10GHz			
			8.35-9.4	≤7.5	10	40@7.2&10.6GHz			
			9.1-10.15	≤7.5	10	40@8&11.4GHz			

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq.(GHz)	Pass Band IL(dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Switch Type	Datasheet
PDSBF4-6R95/13R05-5D8	6.95	13.05	6.95-7.55	≤9	10	40@5.7&8.7GHz	5.5×4.5×0.15	FET	
			7.45-8.05	≤9	10	40@6.2&9.5GHz			
			11.95-12.55	≤9	10	40@10.5&14.0GHz			
			12.45-13.05	≤9	10	40@11.0&14.5GHz			
PDSBF4-7R3/10R55-7D9	7.3	10.55	7.3-8.15	≤9	12	40@6.45&9.40GHz	4.5×4.5×0.15	FET	
			8.1-8.95	≤9	12	40@7.2GHz,30@9.8GHz			
			8.9-9.75	≤9	12	40@8.0GHz,40@11GHz			
			9.7-10.55	≤9	12	40@8.5GHz,30@11.6GHz			
PDSBF4-7R7/9R3-5D8	7.7	9.3	7.7-8.55	≤8.0	12	25@7.02GHz,15@9.23GHz	4.5×4.5×0.15	FET	
			7.95-8.8	≤8.0	12	25@7.275GHz,15@9.475GHz			
			8.2-9.05	≤8.0	12	25@7.525GHz,15@9.725GHz			
			8.45-9.3	≤8.0	12	25@7.775GHz,15@9.975GHz			
BWSBF-7R8/10R9-3	7.8	10.9	7.8-9.1	≤4.6	11	20@6.9&10.16GHz,40@6.6&11.2GHz	4.0×4.3×0.1	PIN	
			8.2-9.8	≤4.4	11	20@7.27&10.2GHz,40@6.9&12.13GHz			
			8.8-10.9	≤4.2	11	20@7.8&12.4GHz,40@7.35&12.9GHz			
BWSBF-7R8/18-3	7.8	18.1	7.8-9.6	≤4.2	11	20@6.9&10.8GHz,40@6.55&11.7GHz	3.8×3.8×0.1	PIN	
			10.2-12.7	≤4.2	11	20@9.2&14.2GHz,40@8.7&15.05GHz			
			15.8-18.1	≤4.3	11	20@14.2&20.1GHz,40@12.9&21.1GHz			
PDSBF4-8/10-5D9	7.85	10.15	7.85-8.65	≤7.5	12	15@9.25GHz,40@6.4GHz	4.5×4.5×0.15	FET	
			8.35-9.15	≤7.5	12	15@9.75GHz,40@6.9GHz			
			8.85-9.65	≤7.5	12	15@8.25&10.25GHz,40@7.4GHz			
			9.35-10.15	≤7.5	12	15@8.75&10.75GHz,40@7.9GHz			
PDSBF4-7R9/12R1-4D9	7.9	12.1	7.9-9.1	≤8.0	10	40@6.5&10.600GHz	5.5×4.5×0.15	FET	
			8.9-10.1	≤8.0	10	40@7.5&11.800GHz			
			9.9-11.1	≤8.0	10	40@8.5&12.600GHz			
			10.9-12.1	≤8.0	10	40@9.5&13.600GHz			
PDSBF4-7R98/9R22-4D9	7.98	9.22	7.98-8.32	≤8.5	12	20@7.47&8.83GHz	5.5×4.5×0.15	FET	
			8.28-8.62	≤8.5	12	20@7.77&9.13GHz			
			8.58-8.92	≤8.5	12	20@8.07&9.43GHz			
			8.88-9.22	≤8.5	12	20@8.37&9.73GHz			
PDSBF-8/12-2	8	12	8-10	≤5.5	12	20@7.15&10.9GHz,30@7&11.05GHz	2.8×2.8×0.15	FET	
			10-12	≤6.0	12	20@8.55&12.9GHz,30@8.4&13.1GHz			

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq. (GHz)	Pass Band L (dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Switch Type	Datasheet
BWSBF-8/12-4	8	12	8-9.6	≤9.0	10	30@6.8&10.8GHz	3.6×4.9×0.1	FET	
			8.8-10.4	≤9.0	10	30@7&11.6GHz			
			9.6-11.2	≤9.0	10	30@8.4&12.4GHz			
			10.4-12	≤10.0	10	30@9.2&13.2GHz			
PDSBF4-8/12-5D6	8	12	8-9	≤7	12	40@6.6&10.8GHz	5.0×4.5×0.15	FET	
			9-10	≤7	12	40@7.5&12GHz			
			10-11	≤7	12	40@8.4&12.6GHz			
			11-12	≤7	12	40@9.3&13.8GHz			
PDSBF4-8/12-5D7	8	12	8-9	≤7	10	40@6.6&10.8GHz	4.5×4.5×0.15	FET	
			9-10	≤7	10	40@7.5&12GHz			
			10-11	≤7	10	40@8.4&12.8GHz			
			11-12	≤7	10	40@9.0&13.8GHz			
BWSBF-8/12-4A	8	12	8-9.6	≤8.7	10	30@6.8G&10.9GHz	3.6×4.9×0.1	FET	
			8.8-10.4	≤9	10	30@6.9G&11.7GHz			
			9.6-11.2	≤8.8	10	30@8.4G&12.7GHz			
			10.4-12	≤9.3	10	30@9.1G&13.3GHz			
BWSBF-8/13R5-3	8	13.5	8-10	≤5.0	12	20@7&11.1GHz,40@6.7&11.6GHz	4.0×4.0×0.1	PIN	
			10-12	≤4.5	12	20@8.7&13.7GHz,40@8.2&14.6GHz			
			12-13.5	≤5.5	12	20@10.6&14.4GHz,40@10&14.7GHz			
BWSBF-8R2/15R3-3	8.2	15.3	8.2-10.2	≤4.2	11	20@7.34&11.4GHz,40@6.95&12.1GHz	3.8×3.8×0.1	PIN	
			10.8-13.8	≤4.2	11	20@9.8&15.44GHz,40@9.2&16.33GHz			
			13.2-15.3	≤4.6	11	20@12&17GHz,40@11.4&17.92GHz			
PDSBF4-8R7/10R3-5D8	8.7	10.3	8.7-9.55	≤8.5	12	25@8.025GHz,15@10.225GHz	4.5×4.5×0.15	FET	
			8.95-9.8	≤8.5	12	25@8.275GHz,15@10.475GHz			
			9.2-10.05	≤8.5	12	25@8.525GHz,15@10.725GHz			
			9.45-10.3	≤8.5	12	25@8.775GHz,15@10.975GHz			
BWSBF-9/16R4-3	9	16.4	9-11.2	≤4.2	11	20@8.1&12.62GHz,40@7.7&13.43GHz	3.8×3.8×0.1	PIN	
			12.3-14.5	≤4.5	11	20@11.2&16.2GHz,40@10.55&17.1GHz			
			14.2-16.4	≤4.6	11	20@12.9&18.25GHz,40@12.32&19.2GHz			
PDSBF4-9R18/10R62-4D9	9.18	10.62	9.18-9.57	≤8.5	12	18@8.69&10.06GHz	5.5×4.5×0.15	FET	
			9.53-9.92	≤8.5	12	18@9.04&10.41GHz			
			9.88-10.27	≤8.5	12	18@9.39&10.76GHz			
			10.23-10.62	≤8.5	12	18@9.74&11.11GHz			




Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq. (GHz)	Pass Band L (dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Switch Type	Datasheet
BWSBF-9R5/18-4	9.5	18	9.5-12	≤7.0	12	20@6.6&14.9GHz,40@5&18.5GHz	3.6×3.3×0.1	FET	
			11.5-14	≤7.5	12	20@8.8&16.9GHz,40@8.1&19.9GHz			
			13.5-16	≤7.5	12	20@10&19.5GHz,40@9&21.5GHz			
			15.5-18	≤7.5	12	20@11.6&22GHz,40@10.4&24.2GHz			
PDSBF4-9R7/11R3-5D8	9.7	11.3	9.7-10.55	≤8.5	12	25@9.025GHz,15@11.225GHz	4.5×4.5×0.15	FET	
			9.95-10.8	≤8.5	12	25@9.275GHz,15@11.475GHz			
			10.2-11.05	≤8.5	12	25@9.525GHz,15@11.725GHz			
			10.45-11.3	≤8.5	12	25@9.775GHz,15@11.975GHz			
PDSBF4-9R85/13R15-5D7	9.85	13.15	9.85-10.9	≤9	10	40@8.6&12.5GHz	5.5×4.5×0.15	FET	
			10.6-11.65	≤9	10	40@9.3&13.3GHz			
			11.35-12.4	≤9	10	40@10&14GHz			
			12.1-13.15	≤9	10	40@10.8&14.5GHz			
PDSBF4-10/12-5D9	9.85	12.15	9.85-10.65	≤8.5	12	15@9.25&11.25GHz,40@8.4GHz	4.5×4.5×0.15	FET	
			10.35-11.15	≤8.5	12	15@9.75&11.75GHz,40@8.9GHz			
			10.85-11.65	≤8.5	12	15@10.25GHz,40@9.4GHz			
			11.35-12.15	≤8.5	12	15@10.75GHz,40@9.9GHz			
BWSBF-9R9/14R2-3	9.9	14.2	9.9-12	≤4.8	11	20@9&13.6GHz,40@8.6&14GHz	4.0×3.9×0.1	PIN	
			11-13.1	≤4.4	11	20@9.9&14.6GHz,40@9.46&15.75GHz			
			12.1-14.2	≤4.9	11	20@11&15.8GHz,40@10.36&17.21GHz			
PDSBF4-10/14-5D7	10	14	10-11	≤10	12	30@8GHz,35@13GHz	4.5×4.5×0.15	FET	
			11-12	≤10	12	30@9GHz,35@14GHz			
			12-13	≤10	12	30@10&15GHz			
			13-14	≤10	12	30@11&16GHz			
BWSBF4-10/18-5D7	10	18	10-12	≤10	12	10@13.3-14.5GHz,35@18.5-21GHz	4.5×4.5×0.15	FET	
			12-13.4	≤10	12	8@14.3-16GHz,35@20.5-22GHz			
			13.4-16.2	≤10	12	13@17.7-18.5GHz,18@11-12GHz			
			16-18	≤10	12	8@19-20GHz,35@5-12GHz			
BWSBF3-10/20-5C8	10	20	10-12.5	≤8.5	10	40@7&16GHz	4.5×3.0×0.1	FET	
			12.5-15.5	≤8.5	10	40@9&19.5GHz			
			15.5-20	≤8.5	10	40@11.8&25.5GHz			
BWSBF-10/18-3	10	18	10-13	≤6.5	12	20@7.7&15.7GHz,40@7.3&18GHz	3.8×3.0×0.1	FET	
			13-15	≤7.0	12	20@10.3&17.8GHz,40@9.6&18.7GHz			
			15-18	≤8.0	12	20@12.7&21GHz,40@12.15&21.9GHz			

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq. (GHz)	Pass Band IL (dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Swich Type	Datasheet
PDSBF4-10R58/12R02- 4D9	10.58	12.02	10.58-10.97	≤9	12	15@10.09&11.46GHz	5.5×4.5×0.15	FET	
			10.93-11.32	≤9	12	15@10.44&11.81GHz			
			11.28-11.67	≤9	12	15@10.79&12.16GHz			
			11.65-12.02	≤9	12	15@11.15&12.52GHz			
PDSBF4-10R7/12R3-5D8	10.7	12.3	10.7-11.55	≤8.5	12	25@10.025GHz,15@12.225GHz	4.5×4.5×0.15	FET	
			10.95-11.8	≤8.5	12	25@10.275GHz,15@12.475GHz			
			11.2-12.05	≤8.5	12	25@10.525GHz,15@12.725GHz			
			11.45-12.3	≤8.5	12	25@10.775GHz,15@12.975GHz			
PDSBF4-11/14-5D9	11	14	11	≤9	12	40@9.5&12.5GHz	4.5×4.2×0.15	FET	
			12	≤9	12	40@10.5&13.5GHz			
			13	≤9	12	35@11.5&14.5GHz			
			14	≤9	12	35@12.5&15.5GHz			
BWSBF-11/17-4	11	17	11	≤13	12	35@7-10&12GHz	4.6×4.8×0.15	FET	
			13	≤13	12	35@7-12&14GHz			
			15	≤13	12	35@7-14&16GHz			
			17	≤13	12	35@7-16&18GHz			
PDSBF4-12/16-5D7	12	16	12-13	≤7.5	12	30@10GHz,30@15GHz	4.5×4.5×0.15	FET	
			13-14	≤7.5	12	30@11GHz,30@16GHz			
			14-15	≤7.5	12	30@12GHz,30@17GHz			
			15-16	≤7.5	12	30@13GHz,30@18GHz			
BWSBF-12/18-4	12	18	12	≤13	12	35@7-11&13GHz	4.6×4.8×0.15	FET	
			14	≤13	12	35@7-13&15GHz			
			16	≤13	12	35@7-15&17GHz			
			18	≤13	12	35@7-17&19GHz			
BWSBF-12/18-5	12	18	12-13	≤12	12	30@10.4GHz&15.1GHz	4×3.7×0.1	FET	
			13-14	≤12	12	30@11.1GHz&16.4GHz			
			14-15	≤12	12	30@12.2GHz&16.8GHz			
			15-16	≤12	12	30@13.2GHz&18.5GHz			
			16-18	≤12	12	30@12.8GHz&22.4GHz			
PDSBF2-12R2/14R6	12.2	14.6	12.2-13.4	≤7.5	12	35@10.8GHz,15@14GHz	4.5×4.0×0.15	FET	
			13.4-14.6	≤7.5	12	35@12GHz,15@15.2GHz			

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq. (GHz)	Pass Band L (dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Switch Type	Datasheet
BWSBF-13R2/18R5-4	13.2	18.5	13.2-15.3	≤5.0	11	20@11.9&17.1GHz,40@11.35&17.7GHz	4.0×4.5×0.1	PIN	
			14.3-16.4	≤5.3	11	20@13&18.5GHz,40@12.4&19.5GHz			
			15.4-17.5	≤4.4	11	20@13.75&19.85GHz,40@13.05&20.9GHz			
			16.5-18.5	≤5.1	11	20@14.5&20.4GHz,40@13.2&20.3GHz			
BWSBF-13R5/18-3	13.5	18	13.5-15	≤5.5	12	20@12&16.2GHz,40@11.4&17GHz	4.0×4.0×0.1	PIN	
			15-16	≤6.0	12	20@13.3&17.1GHz,40@12.8&17.9GHz			
			16-18	≤6.0	12	20@14.1&19.4GHz,40@13.4&20.4GHz			
PDSBF2-14R8/17R3-5D7	14.8	17.3	14.8-16	≤7.5	12	35@13.3GHz,20@17.3GHz	4.5×4.0×0.15	FET	
			16-17.3	≤7.5	12	35@14.6GHz,25@18.6GHz			
BWSBF-15/20-3	15	20	15-16	≤11	12	30@7-13GHz,25@17-30GHz	4.6×4.1×0.15	FET	
			17-18	≤11	12	30@7-15GHz,25@19-30GHz			
			19-20	≤11	12	30@7-17GHz,25@21-30GHz			
PDSBF2-16/18-5D6	16	18	16-17	≤8	10	30@14&19GHz	4.0×2.5×0.15	FET	
			17-18	≤8	10	30@15&20GHz			
PDSBF4-16/20-5D7	16	20	16-17	≤7.5	12	30@14GHz,30@19GHz	4.5×4.5×0.15	FET	
			17-18	≤7.5	12	30@15GHz,30@20GHz			
			18-19	≤7.5	12	30@16GHz,30@21GHz			
			19-20	≤7.5	12	30@17GHz,30@22GHz			
BWSBF-16/21-3	16	21	16-17	≤11	12	30@7-14GHz,25@18-30GHz	4.6×4.1×0.15	FET	
			18-19	≤11	12	30@7-14GHz,25@18-30GHz			
			20-21	≤11	12	30@7-14GHz,25@18-30GHz			
BWSBF-17R5/31R1-3	17.5	31.1	17.5-22.5	≤4.3	11	20@15.5&24.8GHz,40@14.6&26.1GHz	4.0×3.9×0.1	PIN	
			21.5-26.7	≤4.2	11	20@19.1&29.4GHz,40@18.34&31.4GHz			
			25.7-31.1	≤4.3	11	20@22.4&34GHz,40@21.3&35.5GHz			
BWSBF2-17R8/29-5D6	17.8	29	17.8~23	≤8	10	40dBc@11.5GHz,30dBc@26.7GHz	3.0×2.5×0.1	FET	
			23~29	≤8	10	40dBc@14.5GHz,30dBc@34.5GHz			
BWSBF-18/40-3	18	40	18-24	≤5.2	10	30@16&28.1GHz	3.4×3.5×0.1	PIN	
			23-30.5	≤5.2	10	30@20.8&36.5GHz			
			29.5-40	≤5.2	10	30@20.8&46GHz			
BWSBF-18/40-3A	18	40	18-24	≤5.2	10	30@16&28.1GHz	3.35×3.41×0.1	FET	
			23-30.5	≤5.2	10	30@20.8&36.5GHz			
			29.5-40	≤5.2	10	30@20.8&46GHz			






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Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq. (GHz)	Pass Band ΔL (dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Switch Type	Datasheet
BWSBF-20/40-3	19.5	40.5	19.5-20.5	≤ 10.0	10	20@17&22.8GHz,30@16.5&23.4GHz	4.4×4.7×0.1	FET	
			27.5-28.5	≤ 9.8	10	20@25&30.7GHz,30@24.4&31.7GHz			
			39.5-40.5	≤ 9.0	10	20@36.2&43.4GHz,30@35.7GHz			
BWSBF-24/40-4	24	40	24-28	≤ 9.3	10	20@21.57&30.2GHz,30@21&30.6GHz	4.4×5.4×0.1	FET	
			28-32	≤ 9.5	10	20@25.2&34.2GHz,30@24.4&34.6GHz			
			32-36	≤ 12.0	10	20@30&38.4GHz,30@29&39GHz			
			36-40	≤ 10.5	10	20@33&42.5GHz,30@32.5&43.1GHz			
BWSBF-30R1/40-2	30.1	35.7	30.1-35.7	≤ 3.9	10	20@27.1&38.4GHz,40@26.5&40.2GHz	3.8×2.6×0.1	PIN	
			34.7-40	≤ 4.4	10	20@31.3GHz,40@30.6GHz			



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