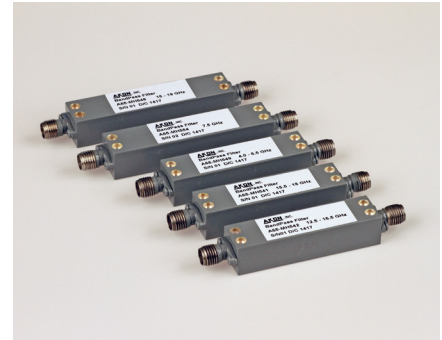


KEY PERFORMANCE FEATURES

- Low Passband Insertion Loss < 1.0 - 6.0 dB typ
- High Skirt Rejection > 35 - 60 dB typ
- Ruggedized & Lightweight Construction
- Various Packaging Options Available
- EAR 99 Export Classification



PRODUCT DESCRIPTION

AKON continues to develop and expand its line of Compact Bandpass High Q Combine Filters covering a variety of bands over the 1 to 26 GHz frequency range. AKON's design techniques and construction provide superior electrical performance with regards to passband insertion loss, high skirt rejection and predictable temperature performance. AKON's BPF Combine Filters come in Drop-in, SMA and SMP packing options to meet your system application requirements.

AKON products are designed to withstand the demanding environments of Civilian, Military, and Space applications. Our compact and ruggedized products are designed to handle stringent mechanical shock/vibrations, temperature cycling, altitude and temperature extremes.

Reliability is a key feature of AKON products and to ensure this we perform ESS testing on all of our products. AKON offers an off-the-shelf screening option called its "H" series, per MIL-STD-883 level B that is available on all of its RF & Microwave Components. **For custom electrical, mechanical, and screening options, please contact AKON Sales: sales@akoninc.com (or) 408-432-8039.**

SPECIFICATIONS:

Model Number	Passband (GHz)	Insertion Loss (max) (dB)	Lower Stopband (min) (dBc)	Upper Stopband (min) (dBc)	VSWR (max)	Size L x W x H (inch)	Package
A65-MH540	.99 - 1.01	2.0	-60 ≤ .9	-60 ≥ 1.1	1.6:1	1.45 x 1.175 x .325	D,S
A65-MH050	.99 - 1.01	2.0	-60 ≤ .9	-60 ≥ 1.1	1.5:1	1.5 x 0.4 x 1.2	D,S
A65-MH005	2.0 - 6.0	2.5	-65 ≤ 1.7	-45 ≥ 6.9	2.0:1	2.9 x 0.7 x 0.5	D,S
A65-MH051	3.5 - 6.6	1.0	-50 ≤ 0.5	-60 ≥ 7.6	2.0:1	1.8 x 0.4 x 0.5	D,S
A65-MH547	3.8 - 6.2	1.0	-60 ≤ 3.2	-60 ≥ 6.85	1.6:1	2.5 x .48 x .4	D,S
A65-MH549	4 - 6.5	1.4	-35 ≤ 3.0	-60 ≥ 8.0	1.9:1	1.8 x .48 x .4	D,S
A65-MH052	5.4 - 10.0	1.0	-50 ≤ 1.0	-60 ≥ 11.5	2.0:1	1.8 x 0.4 x 0.5	D,S
A65-MH545	5.5 - 8.5	1.0	-35 ≤ 4.6	-55 ≥ 9.35	1.6:1	1.8 x .48 x .4	D,S
A65-MH044	5.7 - 8.3	1.2	-60 ≤ 5.0	-60 ≥ 8.7	1.8:1	2.5 x 0.4 x 0.5	D,S
A65-MH083	6.0 - 7.0	1.0	-50 ≤ 5.5	-50 ≥ 7.5	1.5:1	1.8 x 0.4 x 0.5	D,S
A65-MH056	6.0 - 7.1	1.0	-60 ≤ 4.9	-60 ≥ 7.9	1.5:1	2.0 x 0.4 x 0.5	D,S
A65-MH002	6.0 - 10.0	1.0	-75 ≤ 5.1	-75 ≥ 11.5	1.8:1	2.9 x 0.6 x 0.5	D,S
A65-MH084	7.0 - 8.0	1.0	-50 ≤ 6.5	-50 ≥ 8.5	1.5:1	1.8 x 0.4 x 0.5	D,S
A65-MH057	7.2 - 8.3	1.0	-60 ≤ 5.7	-60 ≥ 9.4	1.8:1	2.0 x 0.4 x 0.5	D,S
A65-MH546	7.3 - 9.7	1.0	-60 ≤ 6.5	-60 ≥ 10.7	1.6:1	2.5 x .48 x .4	D,S
A65-MH554	7.48 - 7.52	6.0	-60 ≤ 7.4	-60 ≥ 7.6	1.5:1	2.1 x .48 x .4	D,S
A65-MH544	7.5 - 10.5	1.0	-45 ≤ 6.3	-50 ≥ 11.55	1.6:1	1.8 x .48 x .4	D,S

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All products are measured in 50-ohm system, over a temperature Range of -54° to +85° C.

Note: Packaging Options: D = Drop-In , S = SMP (Model Number Example: A65-MH5XXD)

Note: All dimensions are specified in inches (mm)

SPECIFICATIONS CON'T:

Model Number	Passband (GHz)	Insertion Loss (max) (dB)	Lower Stopband (min) (dBc)	Upper Stopband (min) (dBc)	VSWR (max)	Size L x W x H (inch)	Package
A65-MH053	7.65 - 15.0	1.0	-50 ≤ 1.0	-60 ≥ 17.0	2.0:1	1.8 x 0.4 x 0.5	D,S
A65-MH555	7.98 - 8.02	6.0	-60 ≤ 7.9	-60 ≥ 7.6	1.5:1	2.1 x .48 x .4	D,S
A65-MH085	8.0 - 9.0	1.0	-50 ≤ 7.5	-50 ≥ 9.5	1.5:1	1.8 x 0.4 x 0.5	D,S
A65-MH067	8.3 - 8.5	1.0	-60 ≤ 7.2	-60 ≥ 9.6	1.5:1	1.7 x 0.4 x 0.5	D,S
A65-MH059	8.4 - 9.5	1.0	-60 ≤ 6.9	-60 ≥ 10.6	1.5:1	2.0 x 0.4 x 0.5	D,S
A65-MH058	8.4 - 15.6	1.0	-50 ≤ 2.5	-60 ≥ 17.8	2.0:1	1.6 x 0.3 x 0.5	D,S
A65-MH556	8.48 - 8.52	6.0	-60 ≤ 8.4	-60 ≥ 8.6	1.5:1	2.1 x .48 x .4	D,S
A65-MH045	8.7 - 11.3	1.3	-60 ≤ 7.9	-60 ≥ 11.85	1.8:1	2.8 x 0.4 x 0.5	D,S
A65-MH550	8.7 - 11.3	1.4	-60 ≤ 7.9	-60 ≥ 11.85	1.6:1	2.8 x .5 x .4	D,S
A65-MH557	8.98 - 9.02	6.0	-60 ≤ 8.9	-60 ≥ 9.1	1.5:1	2.1 x .48 x .4	D,S
A65-MH086	9.0 - 10.0	1.0	-50 ≤ 8.5	-50 ≥ 10.5	1.5:1	1.8 x 0.4 x 0.5	D,S
A65-MH055	9.0 - 21.0	2.0	-50 ≤ 2.4	-60 ≥ 23.5	2.0:1	1.6 x 0.3 x 0.5	D,S
A65-MH558	9.48 - 9.52	6.0	-60 ≤ 9.4	-60 ≥ 9.6	1.5:1	2.1 x .48 x .4	D,S
A65-MH068	9.5 - 9.7	1.0	-60 ≤ 8.4	-60 ≥ 10.8	1.5:1	1.6 x 0.4 x 0.5	D,S
A65-MH076	9.5 - 11.0	1.0	-60 ≤ 8.0	-60 ≥ 15.6	1.5:1	1.8 x 0.4 x 0.5	D,S
A65-MH081	9.5 - 13.5	1.0	-60 ≤ 6.6	-60 ≥ 17.5	1.5:1	1.8 x 0.4 x 0.5	D,S
A65-MH543	9.5 - 13.5	1.0	-50 ≤ 8.0	-50 ≥ 14.9	1.6:1	1.8 x .48 x .4	D,S
A65-MH061	9.6 - 10.8	1.0	-60 ≤ 8.8	-60 ≥ 11.5	1.5:1	2.4 x 0.4 x 0.5	D,S
A65-MH552	9.6 - 10.8	1.5	-60 ≤ 8.8	-60 ≥ 11.5	1.5:1	2.4 x .5 x .4	D,S
A65-MH012	10.0 - 11.0	1.0	-65 ≤ 8.5	-65 ≥ 12.65	1.5:1	2.25 x 0.4 x 0.4	D,S
A65-MH087	10.0 - 11.0	1.0	-50 ≤ 9.5	-50 ≥ 11.5	1.5:1	1.8 x 0.6 x 0.5	D,S
A65-MH003	10.0 - 14.0	1.0	-75 ≤ 8.5	-75 ≥ 16.1	1.8:1	2.9 x 0.7 x 0.5	D,S
A65-MH046	10.7 - 13.3	1.0	-60 ≤ 8.5	-60 ≥ 14.6	1.8:1	1.9 x 0.4 x 0.5	D,S
A65-MH060	10.8 - 12.0	1.0	-60 ≤ 9.3	-60 ≥ 13.2	1.8:1	2.0 x 0.4 x 0.5	D,S
A65-MH088	11.0 - 12.0	1.0	-50 ≤ 10.5	-50 ≥ 12.5	1.5:1	1.8 x 0.4 x 0.5	D,S
A65-MH077	11.5 - 12.5	1.0	-60 ≤ 14.4	-60 ≥ 12.6	1.5:1	1.8 x 0.4 x 0.5	D,S
A65-MH054	11.5 - 20.0	1.0	-50 ≤ 1.0	-60 ≥ 23.0	2.0:1	1.8 x 0.4 x 0.5	D,S
A65-MH011	11.9 - 12.1	2.5	-60 ≤ 11.5	-60 ≥ 12.5	1.5:1	2.3 x 0.6 x 0.5	D,S
A65-MH089	12.0 - 13.0	1.0	-50 ≤ 11.5	-50 ≥ 13.5	1.5:1	1.8 x 0.4 x 0.5	D,S
A65-MH062	12.0 - 13.2	1.0	-60 ≤ 11.0	-60 ≥ 14.2	1.5:1	2.4 x 0.4 x 0.5	D,S
A65-MH542	12.5 - 16.5	1.0	-50 ≤ 10.6	-50 ≥ 18.15	1.6:1	1.8 x .48 x .4	D,S
A65-MH047	12.7 - 15.3	1.0	-60 ≤ 10.4	-60 ≥ 16.7	1.8:1	1.9 x 0.35 x 0.5	D,S
A65-MH551	12.7 - 15.3	1.0	-60 ≤ 10.4	-60 ≥ 16.7	1.5:1	1.9 x .5 x .35	D,S
A65-MH090	13.0 - 14.0	1.0	-50 ≤ 12.5	-50 ≥ 14.5	1.5:1	1.8 x 0.4 x 0.5	D,S
A65-MH078	13.0 - 14.5	1.0	-60 ≤ 9.7	-60 ≥ 14.4	1.5:1	1.8 x 0.4 x 0.5	D,S
A65-MH063	13.2 - 14.4	1.5	-60 ≤ 12.2	-60 ≥ 15.4	1.5:1	2.2 x 0.4 x 0.5	D,S
A65-MH553	13.2 - 14.4	1.5	-60 ≤ 12.2	-60 ≥ 15.4	1.5:1	2.2 x .5 x .35	D,S
A65-MH091	14.0 - 15.0	1.0	-50 ≤ 13.5	-50 ≥ 15.5	1.5:1	1.8 x 0.4 x 0.5	D,S
A65-MH004	14.0 - 18.0	1.0	-75 ≤ 11.9	-75 ≥ 20.7	1.8:1	2.9 x 0.6 x 0.5	D,S
A65-MH082	14.0 - 18.5	1.0	-60 ≤ 9.8	-60 ≥ 24.0	1.5:1	1.8 x 0.4 x 0.5	D,S
A65-MH064	14.5 - 15.6	1.5	-60 ≤ 13.5	-60 ≥ 16.5	1.5:1	2.2 x 0.4 x 0.5	D,S
A65-MH048	14.7 - 16.3	1.0	-60 ≤ 12.7	-60 ≥ 17.7	1.8:1	1.9 x 0.4 x 0.5	D,S
A65-MH092	15.0 - 16.0	1.0	-50 ≤ 14.5	-50 ≥ 16.5	1.5:1	1.8 x 0.4 x 0.5	D,S
A65-MH079	15.0 - 16.5	1.0	-60 ≤ 12.7	-60 ≥ 18.28	1.5:1	1.8 x 0.4 x 0.5	D,S

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Note: Packaging Options: D = Drop-In , S = SMP (Model Number Example: A65-MH5XXD)

Note: All dimensions are specified in inches (mm)

SPECIFICATIONS CON'T:

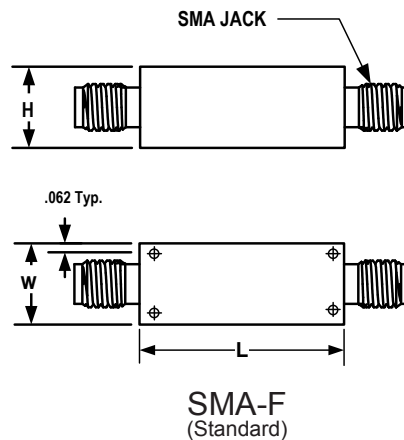
Model Number	Passband (GHz)	Insertion Loss (max) (dB)	Lower Stopband (min) (dBc)	Upper Stopband (min) (dBc)	VSWR (max)	Size L x W x H (inch)	Package
A65-MH548	15.0 - 19.0	1.0	-40 ≤ 13.5	-40 ≥ 21.0	1.6:1	2.1 x .48 x .4	D,S
A65-MH541	15.5 - 18	1.0	-55 ≤ 13.17	-55 ≥ 1.1	1.6:1	1.8 x .48 x .4	D,S
A65-MH065	15.7 - 16.8	1.5	-60 ≤ 14.8	-60 ≥ 17.7	1.5:1	2.2 x 0.4 x 0.5	D,S
A65-MH049	15.7 - 18.3	1.0	-60 ≤ 13.6	-60 ≥ 19.8	1.8:1	1.9 x 0.4 x 0.5	D,S
A65-MH093	16.0 - 17.0	1.0	-50 ≤ 15.5	-50 ≥ 17.5	1.5:1	1.8 x 0.4 x 0.5	D,S
A65-MH066	16.9 - 18.0	1.5	-60 ≤ 16.0	-60 ≥ 18.9	1.5:1	2.2 x 0.4 x 0.5	D,S
A65-MH094	17.0 - 18.0	1.0	-50 ≤ 16.5	-50 ≥ 18.5	1.5:1	1.8 x 0.3 x 0.5	D,S
A65-MH080	17.0 - 18.5	1.0	-60 ≤ 14.4	-60 ≥ 21.0	1.5:1	1.8 x 0.4 x 0.5	D,S

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Note: Packaging Options: D = Drop-In , S = SMP (Model Number Example: A65-MH5XXD)

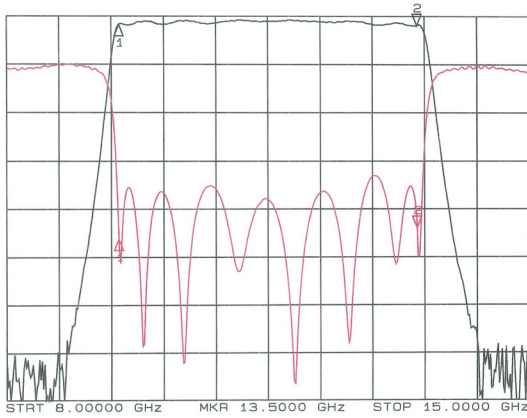
Note: All dimensions are specified in inches (mm)

OUTLINE DRAWING



TYPICAL PERFORMANCE

Typical Frequency Response



Typical Return/Insertion Loss

