

MMIC Reflectionless High Pass Filter

XHF2-1162+

Typical Performance Data

| FREQ. (MHz) | INSERTION LOSS | | | INPUT RETURN LOSS | | | OUTPUT RETURN LOSS | | |
|--------------------|----------------|-------|---------|-------------------|--------|---------|--------------------|--------|---------|
| | (dB) | | | (dB) | | | (dB) | | |
| | @-55°C | @25°C | @+105°C | @-55°C | @+25°C | @+105°C | @-55°C | @+25°C | @+105°C |
| 100 | 7.03 | 7.15 | 7.05 | 6.79 | 6.71 | 6.81 | 6.77 | 6.69 | 6.80 |
| 500 | 7.85 | 8.10 | 7.94 | 6.87 | 6.84 | 6.95 | 6.87 | 7.26 | 6.96 |
| 1000 | 10.27 | 10.75 | 10.47 | 7.36 | 7.40 | 7.48 | 7.36 | 8.65 | 7.52 |
| 1500 | 13.83 | 14.39 | 14.16 | 8.12 | 8.21 | 8.32 | 8.11 | 9.75 | 8.38 |
| 2000 | 17.87 | 18.39 | 18.31 | 9.16 | 9.32 | 9.49 | 9.13 | 10.38 | 9.53 |
| 2500 | 20.21 | 20.53 | 20.44 | 10.51 | 10.79 | 11.04 | 10.43 | 10.91 | 10.99 |
| 3000 | 19.50 | 19.69 | 19.54 | 12.23 | 12.67 | 13.00 | 12.06 | 11.95 | 12.77 |
| 3500 | 18.45 | 18.67 | 18.54 | 14.27 | 14.87 | 15.22 | 13.96 | 13.94 | 14.75 |
| 4000 | 18.32 | 18.62 | 18.53 | 16.23 | 17.08 | 17.48 | 15.91 | 17.26 | 16.89 |
| 4500 | 19.36 | 19.79 | 19.71 | 17.49 | 18.60 | 19.50 | 17.44 | 21.39 | 19.41 |
| 5000 | 21.99 | 22.53 | 22.46 | 17.63 | 18.62 | 20.07 | 18.16 | 20.24 | 21.44 |
| 5500 | 27.15 | 27.60 | 27.31 | 16.98 | 17.60 | 18.61 | 18.13 | 16.97 | 20.54 |
| 6000 | 29.28 | 28.94 | 27.92 | 15.68 | 15.95 | 16.32 | 16.95 | 15.19 | 17.58 |
| 6500 | 23.58 | 24.03 | 23.35 | 14.11 | 14.32 | 14.44 | 14.83 | 14.70 | 15.02 |
| 7000 | 20.95 | 21.71 | 21.40 | 12.65 | 13.04 | 13.17 | 13.02 | 14.87 | 13.40 |
| 7500 | 21.54 | 22.37 | 22.55 | 11.57 | 12.12 | 12.33 | 11.78 | 14.72 | 12.41 |
| 8000 | 26.10 | 25.51 | 24.38 | 11.00 | 11.57 | 11.92 | 11.18 | 13.52 | 12.05 |
| 8500 | 17.93 | 16.87 | 15.89 | 10.98 | 11.50 | 12.05 | 11.40 | 12.29 | 12.69 |
| 9000 | 10.64 | 10.37 | 9.91 | 11.73 | 12.27 | 13.11 | 12.62 | 12.59 | 14.66 |
| 9500 | 6.66 | 6.62 | 6.44 | 13.73 | 14.41 | 15.68 | 15.45 | 15.71 | 18.20 |
| 10000 | 4.19 | 4.24 | 4.25 | 17.61 | 18.58 | 20.59 | 20.23 | 23.10 | 22.82 |
| 10500 | 2.60 | 2.75 | 2.85 | 23.81 | 25.93 | 30.34 | 26.78 | 33.42 | 30.29 |
| 11000 | 1.70 | 1.92 | 2.06 | 34.01 | 34.69 | 35.78 | 31.67 | 27.99 | 38.72 |
| 11500 | 1.23 | 1.47 | 1.63 | 29.39 | 24.96 | 26.12 | 30.05 | 25.18 | 29.46 |
| 12000 | 0.98 | 1.22 | 1.41 | 24.99 | 21.02 | 21.95 | 26.50 | 23.03 | 23.72 |
| 12500 | 0.86 | 1.10 | 1.30 | 22.16 | 19.17 | 18.54 | 22.63 | 20.72 | 19.23 |
| 13000 | 0.78 | 1.02 | 1.24 | 19.81 | 17.70 | 16.08 | 19.17 | 18.14 | 16.09 |
| 13500 | 0.73 | 0.97 | 1.21 | 17.73 | 16.40 | 14.55 | 16.78 | 16.21 | 14.31 |
| 14000 | 0.71 | 0.94 | 1.17 | 15.88 | 15.02 | 13.59 | 15.07 | 14.66 | 13.40 |
| 14500 | 0.71 | 0.93 | 1.15 | 14.58 | 14.02 | 13.10 | 14.15 | 13.84 | 13.15 |
| 15000 | 0.70 | 0.93 | 1.13 | 14.03 | 13.62 | 13.13 | 13.76 | 13.56 | 13.29 |
| 15500 | 0.67 | 0.89 | 1.08 | 14.07 | 13.95 | 13.73 | 13.80 | 13.92 | 13.84 |
| 16000 | 0.62 | 0.83 | 1.02 | 14.55 | 14.75 | 14.95 | 14.23 | 14.71 | 14.79 |
| 16500 | 0.56 | 0.78 | 0.96 | 15.56 | 16.37 | 16.96 | 15.44 | 16.45 | 16.69 |
| 17000 | 0.50 | 0.71 | 0.89 | 17.93 | 20.04 | 21.33 | 17.88 | 19.75 | 20.33 |
| 17500 | 0.44 | 0.66 | 0.85 | 23.47 | 29.75 | 36.61 | 23.52 | 26.84 | 27.88 |
| 18000 | 0.41 | 0.66 | 0.87 | 35.95 | 26.02 | 22.53 | 29.43 | 25.11 | 22.30 |
| 18500 | 0.46 | 0.72 | 0.95 | 19.62 | 17.69 | 16.11 | 18.70 | 18.11 | 16.46 |
| 19000 | 0.57 | 0.82 | 1.06 | 14.50 | 13.95 | 13.27 | 13.88 | 14.39 | 13.47 |
| 19500 | 0.71 | 0.93 | 1.15 | 11.92 | 12.15 | 12.12 | 11.38 | 12.42 | 12.15 |
| 20000 | 0.79 | 0.98 | 1.17 | 10.76 | 11.39 | 12.03 | 10.46 | 11.75 | 12.16 |
| 20500 | 0.78 | 0.96 | 1.11 | 10.90 | 11.94 | 13.27 | 10.76 | 12.21 | 13.49 |
| 21000 | 0.67 | 0.87 | 1.02 | 12.46 | 14.06 | 16.42 | 12.25 | 13.98 | 16.41 |
| 21500 | 0.55 | 0.78 | 0.96 | 15.24 | 17.90 | 21.77 | 15.65 | 18.05 | 22.74 |
| 22000 | 0.47 | 0.73 | 0.96 | 20.31 | 24.83 | 25.32 | 22.86 | 25.92 | 26.92 |
| 22500 | 0.45 | 0.74 | 1.00 | 24.14 | 21.95 | 18.63 | 30.18 | 23.55 | 19.33 |
| 23000 | 0.50 | 0.80 | 1.08 | 18.88 | 16.81 | 15.05 | 18.58 | 17.04 | 15.31 |
| 23500 | 0.56 | 0.86 | 1.15 | 15.72 | 14.48 | 13.62 | 14.96 | 14.41 | 13.68 |
| 24000 | 0.63 | 0.91 | 1.18 | 13.64 | 13.08 | 12.91 | 12.78 | 12.90 | 12.78 |
| 24500 | 0.70 | 0.96 | 1.19 | 12.18 | 12.17 | 12.78 | 11.60 | 12.18 | 12.66 |
| 25000 | 0.79 | 1.01 | 1.22 | 11.19 | 11.87 | 12.91 | 11.16 | 12.20 | 13.15 |
| 25500 | 0.82 | 1.02 | 1.22 | 10.66 | 11.76 | 13.14 | 10.90 | 12.27 | 13.53 |
| 26000 | 0.81 | 1.02 | 1.23 | 10.65 | 12.28 | 13.48 | 10.97 | 12.47 | 13.78 |
| 26500 | 0.77 | 1.00 | 1.23 | 11.20 | 12.82 | 13.99 | 11.62 | 12.88 | 13.98 |
| 27000 | 0.71 | 0.97 | 1.24 | 12.30 | 14.10 | 14.77 | 13.04 | 14.14 | 14.72 |
| 27500 | 0.63 | 0.93 | 1.23 | 14.32 | 16.23 | 16.03 | 14.85 | 15.51 | 15.34 |
| 28000 | 0.56 | 0.89 | 1.20 | 18.40 | 19.21 | 18.39 | 17.73 | 16.93 | 16.46 |
| 28500 | 0.54 | 0.88 | 1.19 | 26.81 | 21.88 | 20.99 | 21.88 | 19.13 | 18.73 |
| 29000 | 0.57 | 0.90 | 1.21 | 26.14 | 21.72 | 20.41 | 22.65 | 21.40 | 21.47 |
| 29500 | 0.61 | 0.93 | 1.26 | 21.66 | 20.37 | 19.27 | 21.35 | 22.48 | 23.34 |
| 30000 | 0.66 | 0.99 | 1.34 | 20.13 | 19.21 | 17.73 | 22.69 | 26.21 | 24.84 |



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