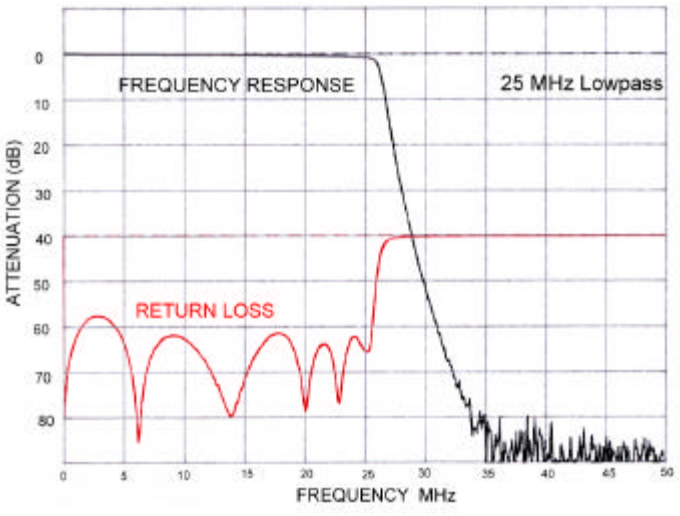
ALLEN AVIONICS, INC.

HF BAND HIGH-POWER RF LOWPASS

These High-Power High Performance Lowpass Filters were designed for Mobile and Fixed base High-frequency (HF) Radio Transmitters in the 100-to-10-metre wavelength Band. Much of the HF band (3 MHz to 30 MHz) is allocated to mobile and fixed voice communication services that require reduction in harmonic content from their transmitters. International (shortwave radio) broadcasting is also conducted in the HF band and has similar harmonic reduction requirements.

These rugged high performance high power Lowpass Filters are made with cutoff frequencies of 25MHz or 30MHz. Available in 50, 200 and 500 watt versions. The rapid cutoff and high attenuation these filters provide make them useful in many applications. Suitable for harmonic reduction and bandwidth limiting on transmitters up to 500 watts. The special Impedance invariant design makes them compatible with all Antenna tuners. Meets applicable requirements of MIL-STD-810E and has been used on many Military HF Radios.

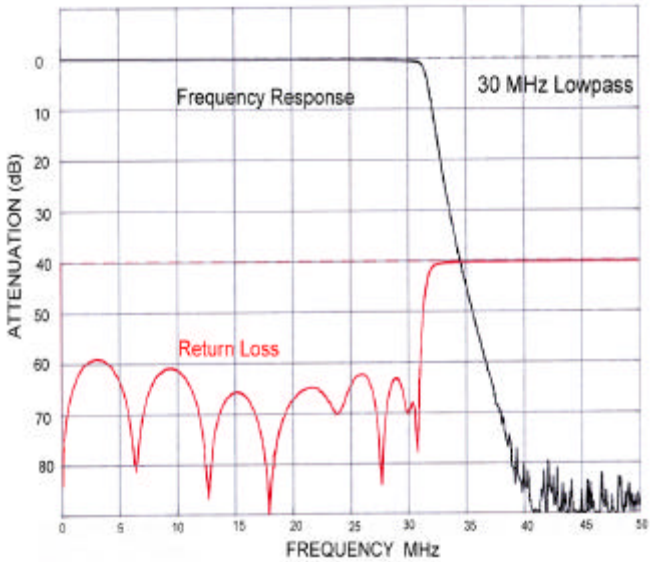


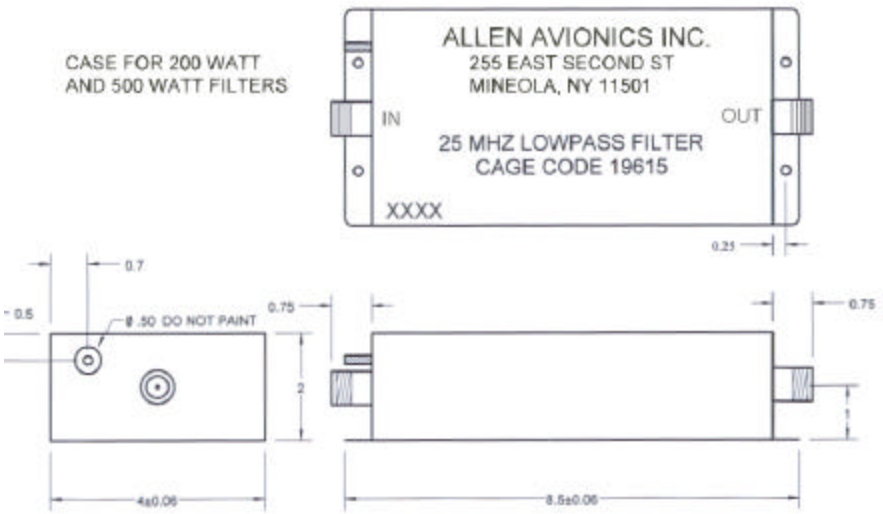
SPECIFICATIONS 25MHz LOWPASS

Passband ---------- 1.5 MHz – 25 MHz
Return Loss ---------- 16dB 1.5- 5 MHz
20dB 5.0-25 MHz
Passband insertion loss--- 0.5 dB 1.5-22 MHz
1.0 dB 22-25 MHz
stopband---------- 40dB at 30 MHz
60 dB 35-90 MHz
Ultimate Stopband---------- 80dB to 250 MHz
Impedance ---------- 50 Ohms
Power handling ---------- 50, 200 or 500 Watts
Mounting----------flanges on all units

SPECIFICATIONS 30MHz LOWPASS

Passband ---------- 1.5 MHz – 30 MHz
Return Loss ---------- 16dB 1.5- 5 MHz
20dB 5.0-30 MHz
Passband insertion loss---- 0.5 dB 1.5-22 MHz
1.0 dB 22-30 MHz
stopband---------- 40dB at 36 MHz
60 dB 40-90 MHz
Ultimate Stopband---------- 80dB to 250 MHz
Impedance ---------- 50 Ohms
Power handling ---------- 50, 200 or 500 Watts
Mounting---------- flanges on all units





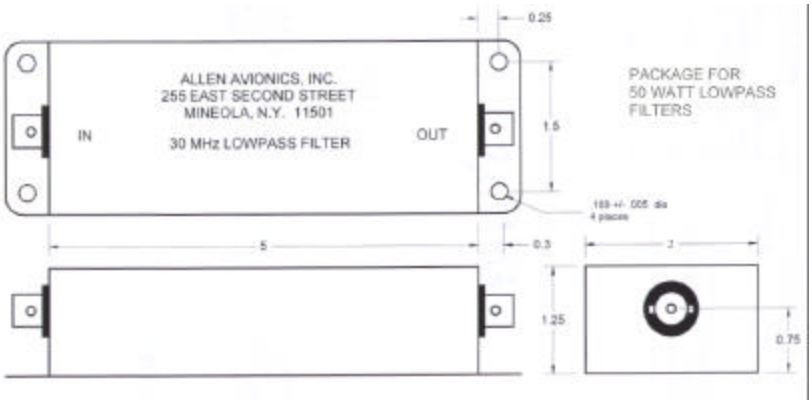
These filters are normally supplied with N Female connectors but can be ordered with BNC connectors and SO-239 UHF connectors.

All the filters are supplied in Hermitically sealed Metal cases designed for tough applications.

They resist shock, vibration, high and low temperature extremes, salt, sand, dust and leakage.

The filters were designed to meet applicable requirements of MIL-STD-810E (Environmental test Methods) and MIL-F-14072D (Finishes for ground based Equipment) that are listed below.

Cans are Cold Rolled Steel
Electro Tin plated or Hot Tin dipped.



ENVIRONMENTAL

ALTITUDE: METHOD 500 3, PROCEDURE 1, 11, AND III TEST ALTITUDE FOR PROCEDURE III IS 4,570 METERS AT 57 2 kPa.

HIGH TEMPERATURE: METHOD 501-3, PROCEDURE I TO +70 C NON-OPERATING, AND PROCEDURE 11 TO +60'C OPERATING.

LOW TEMPERATURE: METHOD 502.3, PROCEDURE I TO -51 C NON-OPERATING, AND PROCEDURE 11 TO -40"C OPERATING.

TEMPERATURE SHOCK: METHOD 503.3, LOW TEMPERATURE -51 "C AND HIGH TEMP. +48"C.

SOLAR RADIATION: METHOD 505.3, PROCEDURE 1, HOT-DRY TEMPERATURE CONDITIONS

RAIN: METHOD 506.3, PROCEDURE I

HUMIDITY: METHOD 507.3, PROCEDURE 111.

FUNGUS: METHOD 508.4.

SALT FOG: METHOD 509 3, PROCEDURE I

SAND AND DUST: METHOD 510 3 PROCEDURE I AND 11

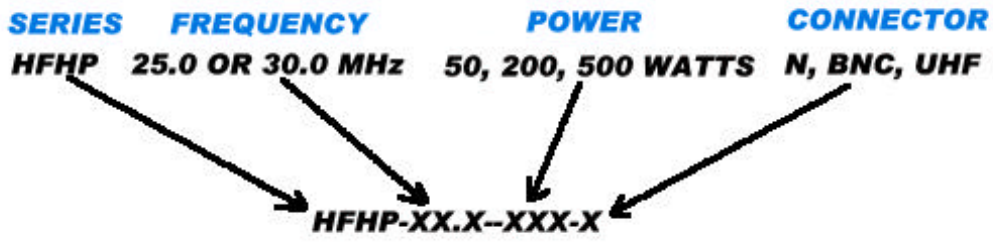
LEAKAGE (IMMERSION): METHOD 512.3, PROCEDURE 1, 2 HOURS AT 1.0 METER

VIBRATION: METHOD 514 4, CATEGORIES 1, 3 AND 8 (TABLE 514 4-AIII)

SHOCK: METHOD 516.4, PROCEDURE 1, V, AND VI.

ICING/FREEZING RAIN: METHOD 521.1.

ORDERING INFORMATION



SAMPLE	**HFHP-30.0-50-N**	**30 MHz LP 50 WATTS TYPE N CONNECTOR**
SAMPLE	**HFHP-25.0-500-UHF**	**25 MHz LP 500 WATTS UHF CONNECTOR**

ALLEN AVIONICS,INC.

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