Band-pass Filter
87.5 ... 108 MHz, 3 kW

KATHREIN

Band-pass filter can be used
- for improving the input selectivity of receivers and amplifiers
- for increasing the isolation of transmitters whose respective antennas are close together
- for suppressing noise side bands and intermodulation products
- as a component in the construction of combiners

Design and Construction
The band-pass filter is made of three capacitively coupled, temperature stabilised resonators. The operating frequency, the coupling between the resonators and also the input and output couplings are adjustable.
Any heat produced is dissipated into the surroundings via heat sinks. The band-pass filter is convection-cooled, so no ventilators are required.
The band-pass filter must be tuned to the operating channel. Tuning may be done at our factory or can be carried out on site.
Clear tuning instructions and also any special tools necessary are part of the delivery extent.

728726 FM Band-pass filter, 3 kW

Technical Data

Type No.	728726
Frequency range	87.5 ... 108 MHz
Insertion loss [1]	< 0.25 ... 0.5 dB
VSWR	< 1.1 (at pass band)
Impedance	50 Ω
Input power	max. 3 kW
Temperature range	–20 °C ... +50 °C
Connectors	7/8" EIA-flange
Material	Aluminium (outer conductor) Brass, silver-plated (inner conductor)
Colour	RAL 7032 (grey)
Weight	55 kg
Dimensions (l x w x h)	680 x 220 x 1320 mm
Packing size (l x w x h)	720 x 300 x 1500 mm

[1] Insertion loss value with standard tuning will be approx. 0.35 dB; reference 3-dB bandwidth is 900 kHz.