

Starpoint Combiner

87.5 ... 108 MHz, 3 kW

KATHREIN

General

Starpoint combiners enable several transmitters or receivers to be connected to one common output. This arrangement provides a cost efficient solution while retaining the advantages of band-pass filter usage.

Design and Construction

This starpoint combiners consist of one temperature stabilised 3-pole band-pass filter per channel. The inputs of the filters are narrowband. The outputs are connected via pre-defined rigid-lines onto a common starpoint. This starpoint then forms the output of the combiner.

The starpoint combiners may be extended by adding further band-pass filters and by exchanging the starpoint.

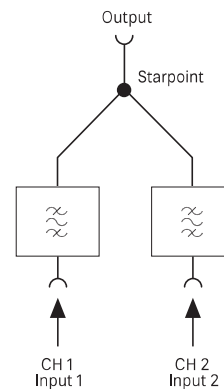
Any heat produced is dissipated into the surroundings via heat sinks. The starpoint combiner is convection-cooled, so no ventilators are required.

The band-pass filters 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 supplied along with the combiner.



728868 FM Starpoint combiner, 2x 3 kW



Technical Data

Type No.	Inputs	Insertion loss ⁽¹⁾	Connectors Input / Output	Weight	Dimensions (l x w x h) [mm]	Packing size [mm]
728868	2	< 0.5 dB	7/8" EIA / 1 1/8" EIA	110 kg	790 x 482 x 1320	1010 x 610 x 1400
730040	3	< 0.6 dB	7/8" EIA / 1 1/8" EIA	180 kg	1553 x 482 x 1320	1x 1010 x 610 x 1400 1x 1010 x 315 x 1400
730041	4	< 0.7 dB	7/8" EIA / 1 1/8" EIA	250 kg	1553 x 482 x 1320	2x 1010 x 610 x 1400
Frequency range				87.5 ... 108 MHz		
Channel spacing				> 1.5 MHz		
Isolation				> 30 dB		
VSWR				< 1.1 (at pass band)		
Impedance				50 Ω		
Input power				max. 3 kW (per input)		
Temperature range				-20 °C ... +50 °C		
Material				Aluminium (outer conductor) Brass, silver-plated (inner conductor)		
Colour				RAL 7032 (grey)		

⁽¹⁾ Insertion loss value refers to a 3-dB bandwidth of 900 kHz. Minimum 3-dB bandwidth is 600 kHz.