



# S-P Cavity

## SPC121.206



S-P filter (Stop-Pass filter) SPC121.206 is one quarter wavelength cavity resonator. This filter can be used in the transmission path to suppress side band noise and to attenuate intermodulation products at the receiving frequencies, in the receiving path to attenuate transmitting frequencies or as a component for antenna combiners with very low frequency spacing.

S-P filter SPC121.206 is constructed of hardened aluminium, the surface is passivated with a chromate coating. The resonator sheath is manufactured from the aluminium alloy, the internal conductor consists of brass cylinder with polished and silver-coated surface. The tuning element is manufactured from the Invar (NILO36 alloy). An Invar rod, with nearly zero expansion, assures frequency stability over a wide temperature range.

The connectors with Optargen-surface reduce intermodulation products.

### ELECTRICAL PARAMETERS

Frequency range [MHz]	118 - 144
Insertion loss [dB]	0,5 - 3, tunable
VSWR	<1.5
Impedance [Ohm]	50
Max. Input power [W]	<250
Temperature range [°C]	-30.....+60
Effect of temperature [kHz/°C]	<0.4

### MECHANICAL PARAMETERS

Connection	N female
Material	Outer conductor: Aluminium
	Inner conductor: Brass, silver/plated
	Tuning rod: NILO36 Alloy
Weight [kg]	7.9
Dimension [wxh]	206 x 1200

