

Combiner CB 4:1

K 102

Landwehrs K 102 passive rf-power combiner is characterized by its extremely low distortion and wide bandwidth. This performance guarantees multi signal operation with low intermodulation. The K 102 combines four output signals from Landwehrs PLL-synthesizers K 103. The sum then feeds one of the inputs of the low distortion power amplifier K 101. These CB 4:1 combiners are designed for industrial applications as well as for university research.



Technical Data

Frequency range	50 ... 300 MHz
Input impedance at any port	50 Ω
Return loss at any input port	> 20 dB
RF maximum input power	+ 20 dBm
Isolation between input ports	> 25 dB
Output impedance	50 Ω
Return loss at output port	> 20 dB
Insertion loss	6.5 dB
Flatness over frequency range	< 1 dB
RF maximum power output level	20 dBm @ 50 Ω
Operating temperature range	0 ... 55 °C

Quality Standards

EMC-standards

VDE 0871 - B

FCC Rules Part 15 - B

Burn-in test

passive

2 h

active

½ h

Connectors and Mechanics

RF input connectors

SMA female

RF output connectors

BNC female

Housing

120 mm x 40 mm x 28.5 mm

Mounting plate

140 mm x 40 mm

Mounting holes

3.2 mm

