

**ASJ8-1 is indoor active divider intended for frequency range 1.5-30MHz. The active stage is built on input of passive divider. ASJ8-1 has input band-pass filter and protection circuit.**

## KEY FEATURES

- Low noise and flat gain
- Filtered and protected input
- Wide voltage range
- Green LED indicates proper internal voltage

## APPLICATIONS

- Radio-monitoring
- Small signals receiving IF-systems

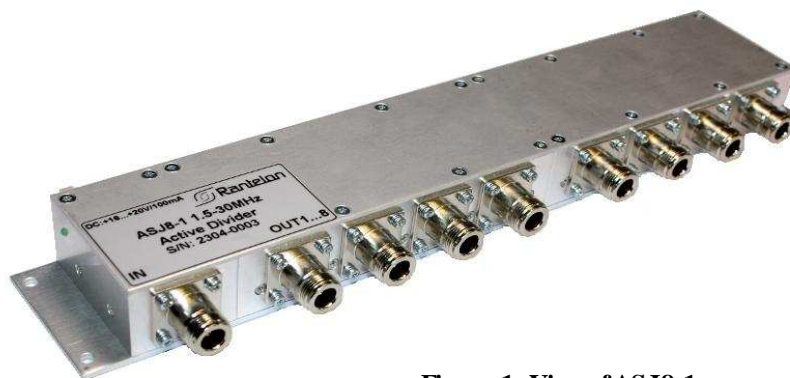


Figure 1: View of ASJ8-1

## TECHNICAL SPECIFICATIONS

### RF characteristics\*

Frequency range	1.5 - 30**	MHz
Gain	7	dB
Total noise figure	4.9	dB
Input return loss	13	dB
Output return loss	17	dB
Total 1dB comp at output	6	dBm
Total OIP3 (spacing 1MHz)	20	dBm
Flatness	±0.5	dB
Amplitude unbalance	±0.2	dB
Phase unbalance	±1.5	Deg
Outputs isolation	25	dB
IN/OUT impedance	50	Ohm
Current consumption	100	mA
Device voltage	+16...+20	V
RF connectors ***	N-female	
DC connector ***	Pin header 4.2mm 2x1 (for polarity see Figure 5)	
Dimensions	See Figure 5	

\* Measured at temperature T=+25°C. 50Ω input/output impedances are used.

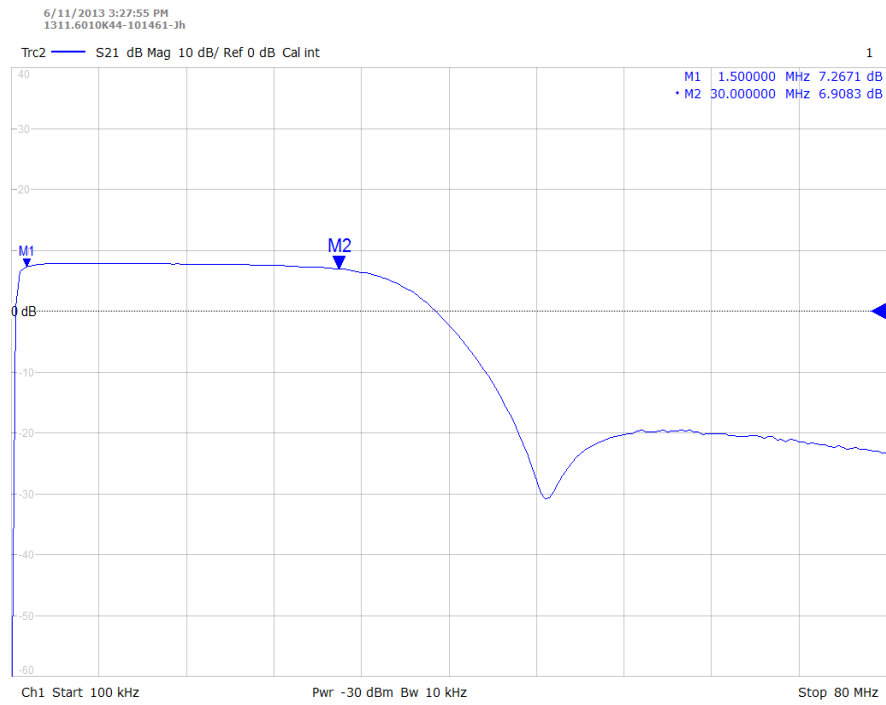
\*\* Can be used @ 450kHz. Transfer losses at 450kHz are approx 2dB.

\*\*\* On order other connector types are available.

**Absolute maximum ratings** *!NB! Not observing the requirements, the device may be damaged. Switching the device on make sure that the input and output are correctly loaded with 50Ω.*

Device voltage	+20	V
RF input power	+5	dBm

**Figure 2: ASJ8-1 transfer function curve up to 80MHz**



**Figure 3: ASJ8-1 transfer function curve at low frequencies up to 5MHz**

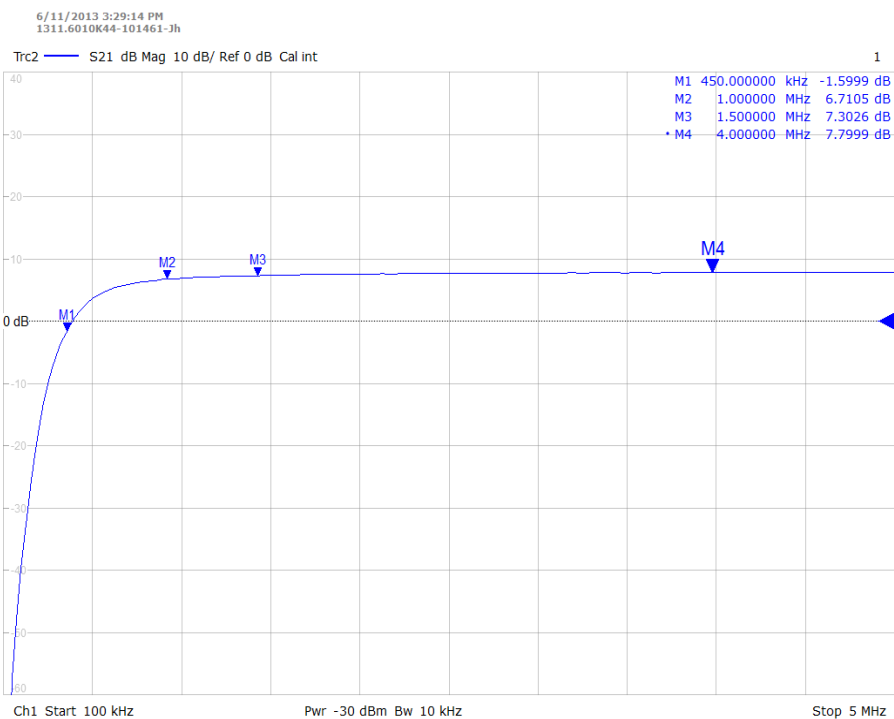
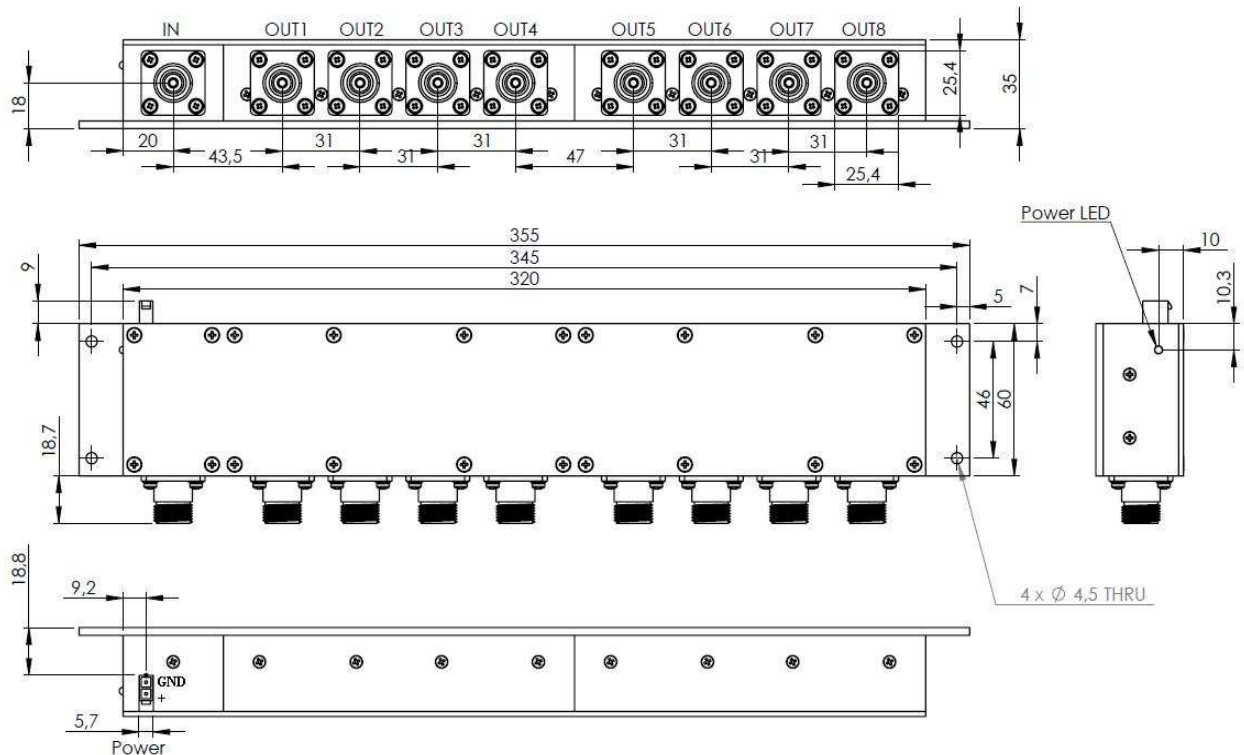


Figure 4: ASJ8-1 transfer function curve up to 3GHz



Figure 5: ASJ8-1 mechanical dimensions (mm)



Rantelon reserves the right to change the specification without notice.