



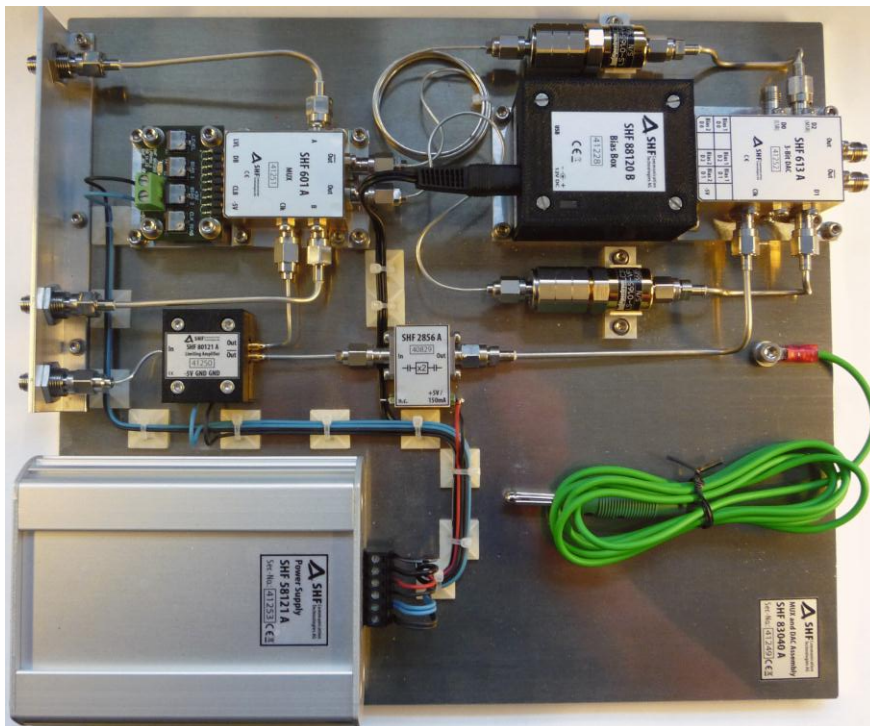
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Mux + DAC Assembly SHF 83040 A



Consisting of:

- 1 x SHF 601 A → 60 Gbps 2:1 Multiplexer
- 1 x SHF 613 A → 60 GBaud 3-Bit DAC
- 1 x SHF 2856 A → Frequency Doubler
- 1 x SHF 80121 A → Limiting Amplifier
- 1 x SHF 58121 A → Power Supply



Specifications

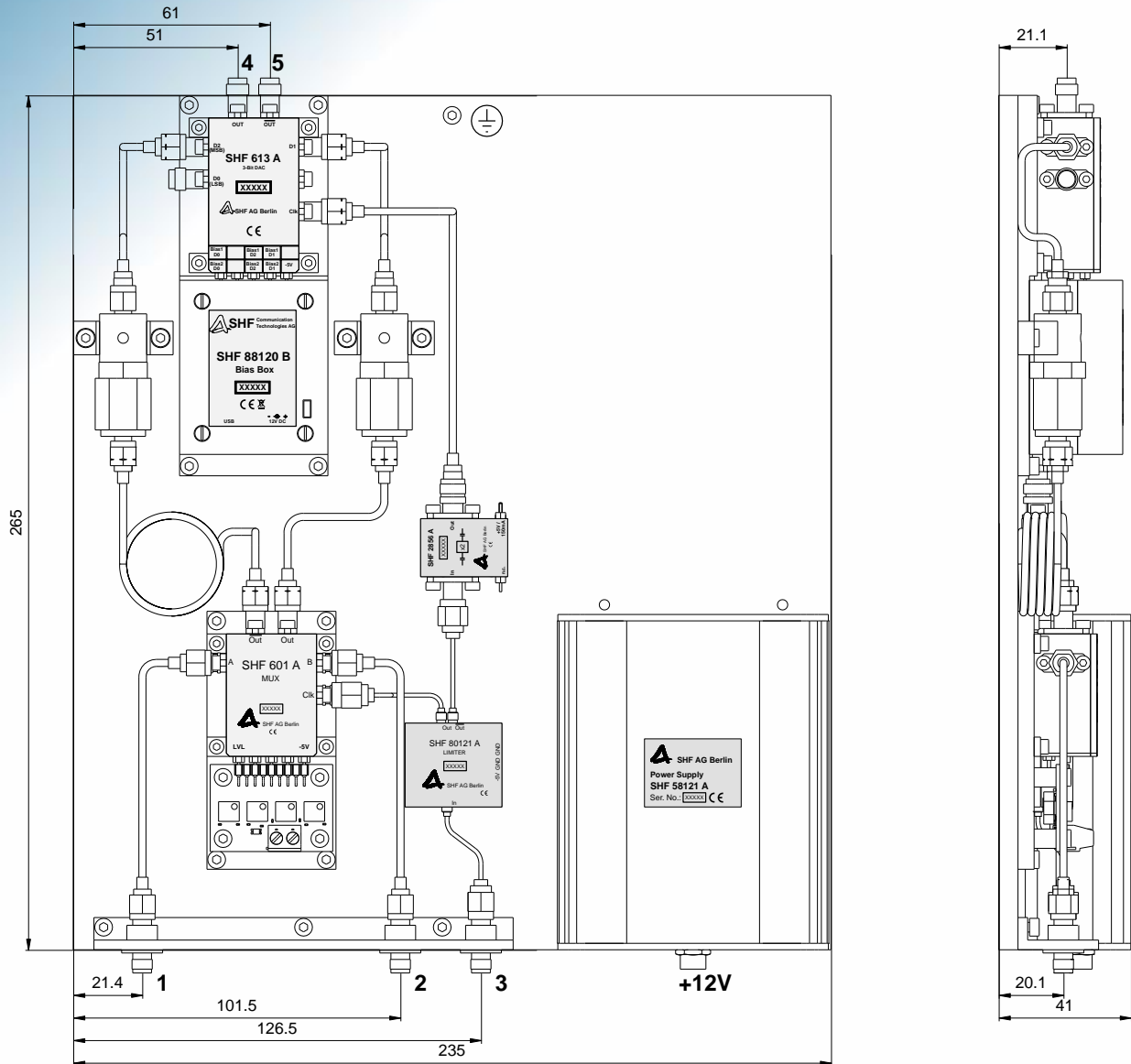
Parameter	Unit	Symbol	Min.	Typ.	Max.	Comment
Input Parameters						
Data Input Voltage	mV _{pp}	V _{data in}	300	630	900	
Minimum Clock Input Frequency	GHz	f _{in min}			25	
Maximum Clock Input Frequency	GHz	f _{in max}	30	32		
Clock Input Voltage	mV _{pp}	V _{clk in}	400	630	900	
Output Parameters						
Minimum Output Data Rate	GBaud	R _{in,min}			50	
Maximum Output Data Rate	GBaud	R _{in,max}	60	64		
Output Amplitude	mV	V _{out}	90		750	Single ended, full scale; adjustable up to -6dB; for more detailed information see datasheet SHF 613 A
Power Requirements						
Supply Voltage	V	V _{cc}	+11.5	+12	+12.5	
Supply Current	mA	I _{cc}		950	1000	
Power Dissipation	W	P _d		11.4		@ V _{CC} = +12V
Conditions						
Ambient Temperature ¹	°C	T _{ambient}	20		30	
Mechanical Characteristics						
Clock Input Connector						2.92mm (K) female
Data Input Connectors						2.92mm (K) female
Data Output Connectors						1.85mm (V) female
Power Supply Connector						DC-Jack 2.1 x 5.5 mm

The specifications for the individual modules of this assembly are the same as specified in the corresponding data sheets.

¹ Tr / Tf of the output data signal can be slightly decreased by applying additional cooling measures like heat sinks or cooling fans.



Outline Drawing - Assembly



Port	Designation	Connector
1	Data A	2.92mm (K) female
2	Data B	2.92mm (K) female
3	Clock	2.92mm (K) female
4	Out	1.85mm (V) female
5	Out	1.85mm (V) female

All dimensions in mm