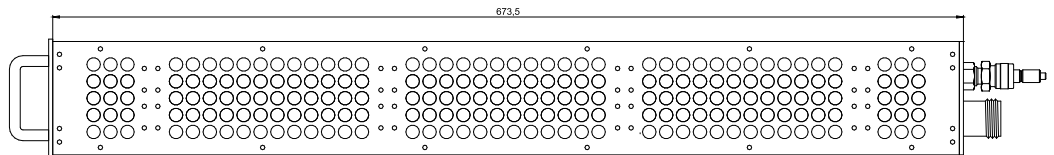
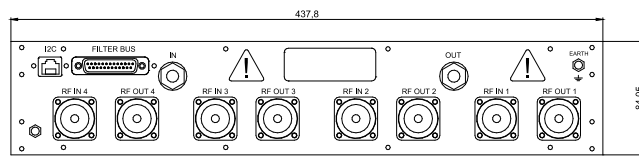
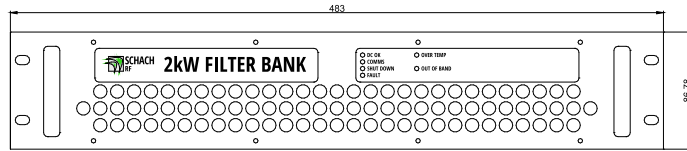


2kW 4CH HF Harmonic Filter Bank



HIGHLIGHTS

- ◆ Rated to 2kW into 50 ohms 30MHz to 40MHz.
- ◆ Rated to 1.6kW into a 2:1 mismatch.
- ◆ 4 Independent Channels per bank.
- ◆ Extensive protection and monitoring.
- ◆ Designed to work with the SRF2K2HFPA for harmonics typically less than -75dBc.
- ◆ Designed to preserve the SRF2K2HFPA very low noise and hum specification.
- ◆ Water cooled.

ITEM	SPECIFICATION	NOTES
Model	SRF2KLFBNK4	
Filter Band	Standard Configuration: 30.0 - 40.0 MHz	
Filter Topology	7th Order Elliptic Low Pass With 5th order harmonic termination.	Harmonic termination: 800W flange resistor typically dissipating <20W.
Pass Band Insertion Loss	<0.3dB, typically 0.15dB.	
Stop Band Insertion Loss	2nd Harmonic > 55dB 3rd Harmonic > 60dB	Filter Bank is designed to give <-70dBc (-75dBc typical) harmonics when used with SRF2K2HFPA.
Pass Band VSWR	<1.25:1, typically <1.1:1	

Note: Specifications may change as product evolves. Confirm with factory before order for any critical specifications.



ITEM	SPECIFICATION	NOTES
Rated Power	2kW CW continuously into 50Ohms 1.6W CW continuously into VSWR 2:1	30MHz to 40MHz
Harmonic Power Handling	100W CW continuously 500W for < 100mS	
Protection	Detects: Harmonic load over-temperature Harmonic load over-power	The filter bank control bus outputs a SHUTDOWN signal which should be used to disable the RF source.
Front Panel LED Indicators	DC OK, Comms, Shutdwn, Fault, Over Temp, Out of Band	
DC Power	Requires 24-28V DC, <100mA	Via parallel bus.
Parallel Interface	The parallel interface provides basic Filter bank functionality and may be bussed in parallel between units. 1. Shutdown output (Open Collector) 2. Fault output (Diode Or) 3. 24V DC in.	25-pin female D connector. An input and output connector facilitates daisy chaining units. This also allows the use of a Unit OK interlock line to protect against a disconnected bus cable.
Monitor Interface	The I ² C monitor interface enables extensive monitoring of harmonic termination temperature and voltage as well as latched faults.	It is not needed for normal filter bank function.
Air Temperature	The unit is intended for operation below 40°C but can tolerate short periods below 50°C.	
Cooling	The unit is liquid cooled and can use clean potable water or a glycol mix.	Typically requires 2 lpm

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