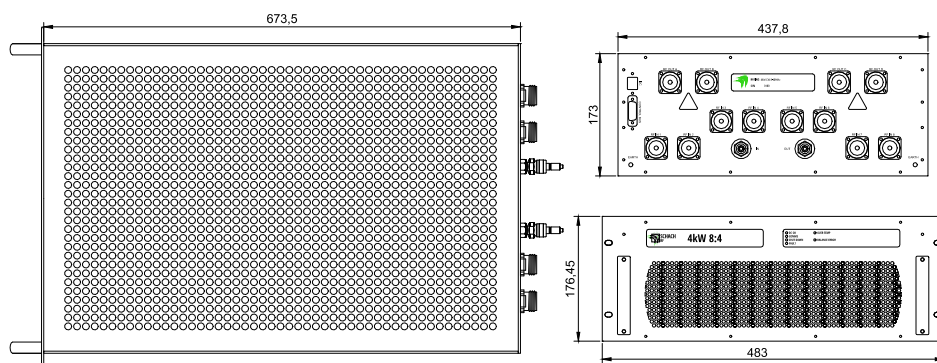


## Quad 2:1 4kW Combiners



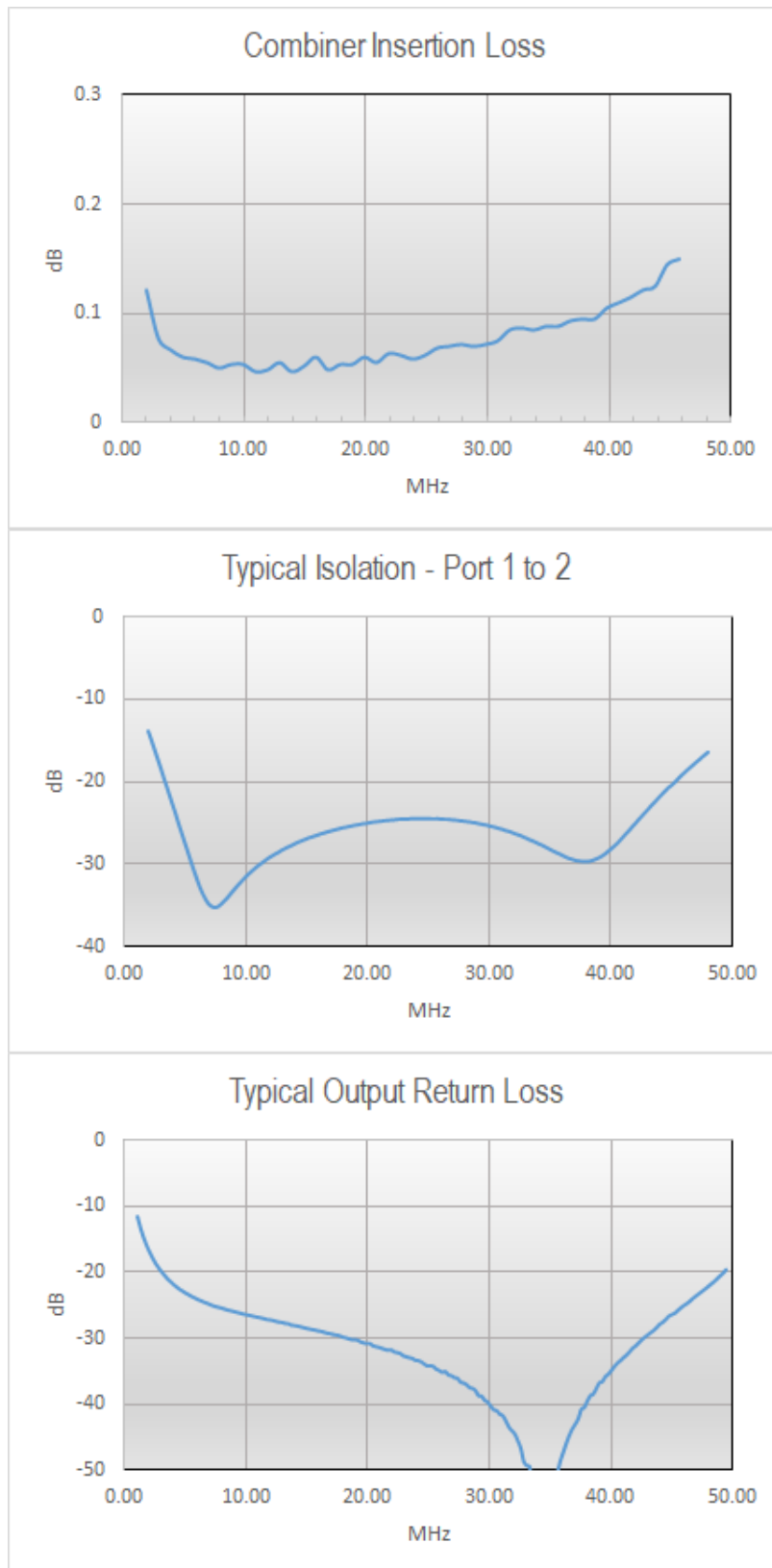
### HIGHLIGHTS

- ◆ 3-45MHz Broadband Capable
- ◆ Low Insertion Loss
- ◆ Good isolation
- ◆ Water cooled balance loads
- ◆ Fail-safe protection
- ◆ Remote monitor interface

ITEM	SPECIFICATION	NOTES
<b>Model</b>	SRF4KLCMB84	4 Independent 2:1 Combiner Channels
<b>Power</b>	4kW x 4 outputs	
<b>Type</b>	In-phase combining	
<b>Frequency Range</b>	5- 40 MHz Normal Operation 3-45 MHz Extended Operation	Derate linearly to half power from 5 to 3 MHz and from 40 to 45 MHz.
<b>Insertion Loss</b>	<0.15dB (<0.1dB typ.) 5-40MHz	See graph
<b>Isolation</b>	>20dB (25dB typ.) 5-40MHz	Output terminated in 50Ω See graph
<b>Un-balance Handling</b>	Operates continuously with at least one missing input from each 4kW combiner.	Protected against excessive unbalance power by asserting SHUTDOWN line.
<b>Status Monitoring</b>	Unbalance resistor voltages and temperatures.	Available via I2C bus.
<b>RF Samples (Optional)</b>	Forward and Reverse. Typically adjusted to -63dBc.	Directivity >30dB typ.
<b>Output Match</b>	Return Loss >25dB 8-40MHz, >20dB 5-45MHz	Inputs terminated in 50Ω. See graph
<b>Physical</b>	19" x 4RU x 673mm chassis	
<b>Inputs</b>	8x 7-16 Female	
<b>Outputs</b>	4x 7-16 Female	
<b>Interface</b>	D15 female parallel interface RJ45 I2C interface	
<b>Cooling</b>	Requires > 2lpm clean potable water, up to 40°C. Swagelok no-leak quick disconnect valves.	Combiner can operate safely with up to 50°C water for short periods.

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





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