

SPL Series

Extended L-Band Splitters/Combiners Passive (2-way, 4-way, 8-way, 16-way)

Made
in
Germany

GENERAL

The SPL Series represents high quality passive L-Band Splitters/Combiners available as 2-way, 4-way, 8-way or 16-way splitting/combining configuration. Each Splitter/Combiner module is housed into a robust and compact aluminum enclosure and can be used for standalone operation, but also can be integrated into various available 19" rack-mount panels for installation into a 19" cabinet.

This units operate within the extended L-Band frequency-range (850...2450MHz) ready for KA-Band and HTS applications and are available with 50Ohm SMA(f) or BNC(f) as well as 75Ohm F(f) or BNC(f) connectors.

These passive Splitters/Combiners feature high quality, excellent RF performance and are perfectly suited for Satellite-, Broadcast and Broadband RF distribution infrastructures such as for Teleports, Earth-Station or Cable/IPTV headend operations.



FEATURES & BENEFITS

- Compact and robust aluminum enclosure
- Extended L-Band frequency (850...2450MHz) also suitable for KA-Band and HTS applications
- Featuring 2-way, 4-way, 8-way or 16-way Splitters/Combiners
- Available with 50Ohm SMA/BNC or 75Ohm F/BNC connectors
- Professional PCB design assuring excellent RF performance, quality and reliability
- Standard variants with 10MHz-block & DC-block (all ports)
- Variants with 10MHz-pass & DC-pass (all ports)*
*available upon request
- Easy installation via mounting screw holes on top side
- 1RU/19" rack-mount panel available for 2-way Inline version (max. 16 SPL splitters/combiner modules)
- 2RU/19" rack-mount panel available for 4-way Inline version (max. 16 SPL splitters/combiner modules)
- 4RU/19" rack-mount panel available for 8-way Inline version (max. 16 SPL splitters/combiner modules)

TECHNICAL SPECIFICATIONS

- **Dimensions:**
 - 2-way:** 40 x 60 x 15mm high
 - 4-way:** 74 x 90 x 15mm high
 - 8-way:** 140 x 90 x 15mm high
 - 16-way:** 275 x 90 x 15mm high
- **Variants:** 2-way, 4-way, 8-way or 16-way
- **Frequency range:** 850...2.450MHz (Extended L-Band)
- **Connectors:** 50Ohm SMA(f)/BNC(f) or 75Ohm F(f)/BNC(f)
- **Input RF power** +30dBm max.
- **Input Return loss:** 18dB min.
- **Output Return loss:** 18dB min.
- **Isolation:** ≥ 25dB
- **Insertion loss:**
 - 2-way:** -2,5dB, ± 0,25dB
 - 4-way:** -6,5dB, ± 0,25dB
 - 8-way:** -10dB, ± 0,25dB
- **Frequency response**
 - with 50Ohm connectors:** ± 0,50dB (± 0,20dB @ any 36MHz)
 - with 75Ohm connectors:** ± 0,75dB (± 0,20dB @ any 36MHz)
- **10MHz-pass / DC-pass*:** *available upon request
- **Operating temperature:** 0...50°C
- **Storage temperature:** - 20°C...75°C
- **Humidity:** 90% non-condensing
- **RoHs:** compliant

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ORDER INFORMATION

50Ohm SMA(f) Variants

- **SPL1201-50S:** Passive L-Band Splitter/Combiner, Inline, 2-way, 50Ohm SMA(f)
- **SPL1201T-50S:** Passive L-Band Splitter/Combiner, T-Line, 2-way, 50Ohm SMA(f)
- **SPL1401-50S:** Passive L-Band Splitter/Combiner, Inline, 4-way, 50Ohm SMA(f)
- **SPL1801-50S:** Passive L-Band Splitter/Combiner, Inline, 8-way, 50Ohm SMA(f)
- **SPL11601-50S:** Passive L-Band Splitter/Combiner, Inline, 16-way, 50Ohm SMA(f)

50Ohm BNC(f) Variants

- **SPL1201-50B:** Passive L-Band Splitter/Combiner, Inline, 2-way, 50Ohm BNC(f)
- **SPL1201T-50B:** Passive L-Band Splitter/Combiner, T-Line, 2-way, 50Ohm BNC(f)
- **SPL1401-50B:** Passive L-Band Splitter/Combiner, Inline, 4-way, 50Ohm BNC(f)
- **SPL1801-50B:** Passive L-Band Splitter/Combiner, Inline, 8-way, 50Ohm BNC(f)
- **SPL11601-50B:** Passive L-Band Splitter/Combiner, Inline, 16-way, 50Ohm BNC(f)

75Ohm F(f) Variants

- **SPL1201-75F:** Passive L-Band Splitter/Combiner, Inline, 2-way, 75Ohm F(f)
- **SPL1201T-75F:** Passive L-Band Splitter/Combiner, T-Line, 2-way, 75Ohm F(f)
- **SPL1401-75F:** Passive L-Band Splitter/Combiner, Inline, 4-way, 75Ohm F(f)
- **SPL1801-75F:** Passive L-Band Splitter/Combiner, Inline, 8-way, 75Ohm F(f)
- **SPL11601-75F:** Passive L-Band Splitter/Combiner, Inline, 16way, 75Ohm F(f)

75Ohm BNC(f) Variants

- **SPL1201-75B:** Passive L-Band Splitter/Combiner, Inline, 2-way, 75Ohm BNC(f)
- **SPL1201T-75B:** Passive L-Band Splitter/Combiner, T-Line, 2-way, 75Ohm BNC(f)
- **SPL1401-75B:** Passive L-Band Splitter/Combiner, Inline, 4-way, 75Ohm BNC(f)
- **SPL1801-75B:** Passive L-Band Splitter/Combiner, Inline, 8-way, 75Ohm BNC(f)
- **SPL11601-75B:** Passive L-Band Splitter/Combiner, Inline, 16-way, 75Ohm BNC(f)

Mounting Panels, 19" rack-mount

- **SPL1201S16MP:** Mounting Panel 1RU/19" rack-mount, for max. 16 x SPL1201-xxx (2-way) Splitter/Combiner modules
- **SPL1401S16MP:** Mounting Panel 2RU/19" rack-mount, for max. 16 x SPL1401-xxx (4-way) Splitter/Combiner modules
- **SPL1801S16MP:** Mounting Panel 4RU/19" rack-mount, for max. 16 x SPL1801-xxx (8-way) Splitter/Combiner modules