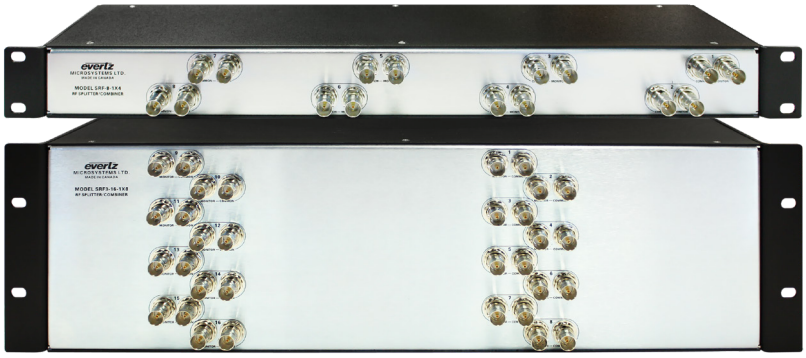
SRF1, SRF3 Series

Multi–Channel Passive Splitter/Combiner



Features & Benefits

- Passes all signal modulation formats
- Completely passive design for high reliability
- Compact design, may be front or rear rack mounted
- Passes LNB power and 22kHz tone on all parts except monitor
- Monitor port allows for monitoring of common port signal without interruption of signal path

The SRF1 and SRF3 are compact, high performance, multi–channel, passive splitter/combiner arrays, designed for expansion of RF routing systems and other applications requiring high–density, rackmount RF splitter packages. The wide pass bandwidth includes the extended L–Band range. The SRF series may be used in any L–Band signal distribution system where multiple channels of passive 1x2, 1x4 or 1x16 splitter/combiners are needed.

The module functions as a splitter or combiner depending on the RF connections. The SRF unit can be configured as a splitter by injecting an RF signal to the common port. The outputs will be a reduced amplitude replica of the input signal. Injecting RF signals into the combiner input ports (splitter outputs) results in the summation at the common port with reduced amplitude. The monitor port allows monitoring of the common port without interruption of the signal path.

	Frequency Range	Insertion Loss	Isolation (Channel to Channel)	Return Loss (>250MHz)	No. of Channels	Dimensions
SRF1–16–1x2LB	40–3000MHz	4.2 ± 0.5dB	>60dB	>15dB	16 1x2	19" W x 1.75" H x 5.5" D (483mm x 45mm x 140mm)
SRF3–64–1x2LB	40–3000MHz	4.2 ± 0.5dB	>60dB	>15dB	64x 1x2	19" W x 5.25" H x 5.5" D (483mm x 134mm x 140mm)
SRF1–8–1x4LB	40–3000MHz	7.6 ± 0.75dB	>55dB	>15dB	8x 1x4	19" W x 1.75" H x 5.5" D (483mm x 45mm x 140mm)
SRF3–32–1x4LB	40–3000MHz	7.6 ± 0.75dB	>55dB	>15dB	32x 1x4	19" W x 5.25" H x 5.5" D (483mm x 134mm x 140mm)
SRF1–4–1x8LB	200–2200MHz	11 ± 1dB	>55dB	>14dB	4x 1x8	19" W x 1.75" H x 5.5" D (483mm x 45mm x 140mm)
SRF3–16–1x8LB	200–2200MHz	11 ± 1dB	>55dB	>14dB	16x 1x8	19" W x 5.25" H x 5.5" D (483mm x 134mm x 140mm)
SRF1–2–1x16LB	200–2200MHz	14 ± 1dB	>55dB	>14dB	2x 1x16	19" W x 1.75" H x 5.5" D (483mm x 45mm x 140mm)
SRF3–8–1x16LB	200–2200MHz	14 ± 1dB	>55dB	>14dB	8x 1x16	19" W x 5.25" H x 5.5" D (483mm x 134mm x 140mm)

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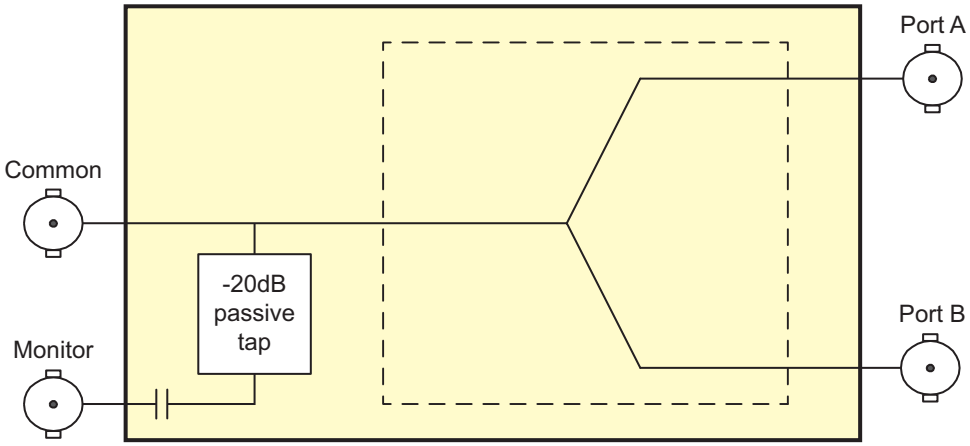
Specifications

General:

Connectors:	BNC (F–Type and SMA connectors optional)
Impedence:	75Ω (50Ω optional)

Monitor Port:

Connector:	1x BNC per IEC 61169–8 Annex A (F–Type optional)
Level:	-20dB ± 2dB, referenced to the common port



Ordering Information

SRF1–16–1x2LB	16–channel 1x2 splitter/combiner in 1RU chassis, 75 Ohm BNC connectors on all ports, used in multi–frame XRF router systems
SRF1–16–1x2LB–F75	16–channel 1x2 splitter/combiner in 1RU chassis, 75 Ohm F–Type connectors, used in multi–frame XRF router systems
SRF1–8–1x4LB	8–channel 1x4 splitter/combiner in 1RU chassis, 75 Ohm BNC connectors on all ports, used in multi–frame XRF router systems
SRF1–8–1x4LB–F75	8–channel 1x4 splitter/combiner in 1RU chassis, 75 Ohm F–Type connectors, used in multi–frame XRF router systems
SRF1–4–1x8LB	4–channel 1x8 splitter/combiner in 1RU chassis, 75 Ohm BNC connectors on all ports, used in multi–frame XRF router systems or for both RF splitting
SRF1–4–1x8LB–F75	4–channel 1x8 splitter/combiner in 1RU chassis, 75 Ohm F–type connectors on all ports, used in multi–frame XRF router systems or for both RF splitting
SRF1–2–1x16LB	Dual 1x16 L–Band splitter/combiner in 1RU chassis, 75 Ohm BNC connectors on all ports
SRF1–2–1x16LB–F75	Dual 1x16 splitter/combiner in 1RU chassis, 75 Ohm F–type connectors on all ports
SRF3–64–1x2LB	64–channel 1x2 splitter/combiner in 3RU chassis, 75 Ohm BNC connectors on all ports, used in multi–frame XRF router systems
SRF3–64–1x2LB–F75	64–channel 1x2 splitter/combiner in 3RU chassis, 75 Ohm F–Type connectors on common and monitor ports, BNC on dual ports, used in multi–frame XRF router systems
SRF3–32–1x4LB	32–channel 1x4 splitter/combiner in 3RU chassis, 75 Ohm BNC connectors on all ports, used in multi–frame XRF router systems
SRF3–32–1x4LB–F75	32–channel 1x4 splitter/combiner in 3RU chassis, 75 Ohm F–Type connectors, on all ports, used in multi–frame XRF router systems
SRF3–16–1x8LB	16–channel 1x8 splitter/combiner in 3RU chassis, 75 Ohm BNC connectors on all ports, used in multi–frame XRF router systems
SRF3–16–1x8LB–F75	16–channel 1x8 RF splitter/combiner in 3RU chassis, 75Ω F–Type connectors
SRF3–8–1x16LB	8 1x16 L–Band splitters/combiners in 3RU chassis, 75 Ohm BNC connectors on all ports
SRF3–8–1x16LB–F75	8 1x16 L–Band splitters/combiners in 3RU chassis, F–type connectors on all ports