SRF1, SRF3 Series

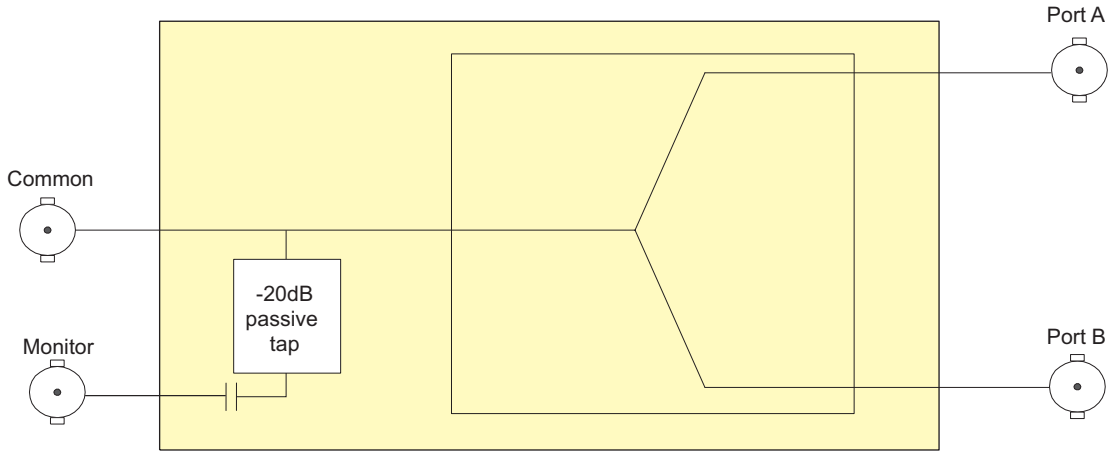
Multi-Channel Passive Splitter/Combiner

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.

Features & Benefits

- Passes all signal modulation formats
- Functions as a high-density passive splitter or combiner
- Completely passive design for high reliability
- Compact design, may be front or rear rack mounted
- Passes LNB power on all parts except monitor
- Monitor port allows for monitoring of Common port signal without interruption of signal path



1x2 Example Shown

Specifications

	SRF1-16-1x2LB	SRF3-64-1x2LB	SRF1-8-1x4LB	SRF3-32-1x4LB	SRF1-4-1x8LB	SRF3-16-1x8LB	SRF1-2-1x16LB	SRF3-8-1x16LB
Frequency Range	40 - 3000 MHz	40 - 3000 MHz	40 - 3000 MHz	40 - 3000 MHz	600 - 2200 MHz	600 - 2200 MHz	800 - 2200 MHz	800 - 2200 MHz
Insertion Loss	4.2±0.5dB	4.2±0.5dB	7.6±0.75dB	7.6±0.75dB	11±1dB	11±1dB	14±1dB	14±1dB
Impedance	75Ω	75Ω	75Ω	75Ω	75Ω	75Ω	75Ω	75Ω
Isolation (channel to channel)	>60dB	>60dB	>55dB	>55dB	>55dB	>55dB	>55dB	>55dB
Return Loss (>250 MHz)	>15dB	>15dB	>15dB	>15dB	>14dB	>14dB	>14dB	>14dB
Connectors	BNC (F-Type optional)	BNC (F-Type optional)	BNC (F-Type optional)	BNC (F-Type optional)	BNC (F-Type optional)	BNC (F-Type optional)	BNC (F-Type optional)	BNC (F-Type optional)
Number of channels	16 1x2's	64 1x2's	8 1x4's	32 1x4's	4 1x8's	16 1x8's	2 1x16's	8 1x16's
Dimensions	19"Wx 1.75"Hx 5.5"D	19"Wx 5.25"Hx 5.5"D	19"Wx 1.75"Hx 5.5"D	19"Wx 5.25"Hx 5.5"D	19"Wx 1.75"Hx 9.25"D	19"Wx 5.25"Hx 9.25"D	19"Wx 5.25"Hx 9.25"D	19"Wx 5.25"Hx 9.25"D

Monitor Port:
Connector: 1 BNC per IEC 61169-8 Annex A, (F type optional)
Level: -20dB ± 2dB referenced to the Common Port

Ordering Information

SRF1 Series	
SRF1-16-1x2LB	16-channel 1x2 RF splitter/combiner in 1RU chassis, 75Ω BNC connectors
SRF1-16-1x2LB-F75	16-channel 1x2 RF splitter/combiner in 1RU chassis, F-Type connectors
SRF1-8-1x4LB	8-channel 1x4 RF splitter/combiner in 1RU chassis, 75Ω BNC connectors
SRF1-8-1x4LB-F75	8-channel 1x4 RF splitter/combiner in 1RU chassis, F-Type connectors
SRF1-4-1x8LB	4-channel 1x8 RF splitter/combiner in 1RU chassis, 75Ω BNC connectors
SRF1-4-1x8LB-F75	4-channel 1x8 RF splitter/combiner in 1RU chassis, F-Type connectors
SRF1-2-1x16LB	2-channel 1x16 RF splitter/combiner in 1RU chassis, 75Ω BNC connectors
SRF1-2-1x16LB-F75	2-channel 1x16 RF splitter/combiner in 1RU chassis, F-Type connectors

SRF3 Series	
SRF3-64-1x2LB	64-channel 1x2 RF splitter/combiner in 3RU chassis, 75Ω BNC connectors
SRF3-64-1x2LB-F75	64-channel 1x2 RF splitter/combiner in 3RU chassis, F-Type connectors
SRF3-32-1x4LB	32-channel 1x4 RF splitter/combiner in 3RU chassis, 75Ω BNC connectors
SRF3-32-1x4LB-F75	32-channel 1x4 RF splitter/combiner in 3RU chassis, F-Type connectors
SRF3-16-1x8LB	16-channel 1x8 RF splitter/combiner in 3RU chassis, 75Ω BNC connectors
SRF3-16-1x8LB-F75	16-channel 1x8 RF splitter/combiner in 3RU chassis, F-Type connectors
SRF3-8-1x16LB	8-channel 1x16 RF splitter/combiner in 3RU chassis, 75Ω BNC connectors
SRF3-8-1x16LB-F75	8-channel 1x16 RF splitter/combiner in 3RU chassis, F-Type connectors