

# QS/QC Series Signal Distribution

## Extended L-Band Splitters & Combiners



### General Description:

The **QS/QC Series** product line builds upon the well-known and proven Quintech **LS** and **LC** products. The **QS/QC Series** brings Quintech's excellent flatness and linearity to the extended L-band frequency range and provides adjustable LNB power options to meet all of your signal distribution needs now and in the future.

### QS/QC

#### Features & Benefits:

- 50Ω 950-4000 MHz or 75Ω 850-3000 MHz Operating Range
- Multiple configurations available in a 1RU Enclosure
- 1X4 (single, dual, quad), 1X8 (single dual), 1X16 (single, dual), 1x32 (single)
- LNB Power: 750 mA 13/18 V with 22 kHz Tone, or 24V fixed
- Passive and Active Configurations available
- Power Supply Status Monitoring
- Single and Redundant DC or AC power options

| Specifications*:  | 850-3000 MHz   |                |                       | 950-4000 MHz          |                |                       |
|---|--|----------------|-----------------------|-----------------------|----------------|-----------------------|
| Available Configurations  | 1X2 (single, dual, quad), 1X4 (single, dual, quad), 1X8 (single or dual), 1X16 (single or dual), 1X32 (single) |                |                       |                       |                |                       |
| Configuration:  | 1x4  | 1x8            | 1x16                  | 1x4                   | 1x8            | 1x16                  |
| RF Connectors:  | F-Type, BNC  |                |                       | SMA (f)               |                |                       |
| Impedance:  | 75 Ω   |                |                       | 50 Ω                  |                |                       |
| Operating Frequency:  | 850-3000 MHz   |                |                       | 950-4000MHz           |                |                       |
| Insertion Loss:<br>(Passive) (Splitter)                                   | -8 +/- 2.0 dB  | -11 +/- 3.0 dB | -15 +/- 3.0 dB        | -8 +/- 2.0 dB         | -11 +/- 3.0 dB | -15 +/- 3.0 dB        |
|   | 950-2450 MHz   |                |                       | 950-2450 MHz          |                |                       |
| Insertion Loss:<br>(Active) (Combiner)                                    | -8 +/- 1.5 dB  | -11 +/- 2.0 dB | -15 +/- 2.0 dB        | -8 +/- 1.5 dB         | -11 +/- 2.0 dB | -15 +/- 2.0 dB        |
|   | 850-3000 MHz   |                |                       | 950-4000MHz           |                |                       |
|   | 0 +/- 2.0 dB   | 0 +/- 2.0 dB   | 0 +/- 2.0 dB          | 0 +/- 1.5 dB          | 0 +/- 2.0 dB   | 0 +/- 2.0 dB          |
|   | 950-2450 MHz   |                |                       | 950-2450 MHz          |                |                       |
|   | 0 +/- 1.0 dB   | 0 +/- 1.0 dB   | 0 +/- 1.0 dB          | 0 +/- 1.0 dB          | 0 +/- 1.0 dB   | 0 +/- 1.0 dB          |
| Input P1dB:   | 0 dBm min.   |                |                       | 0 dBm each input      |                |                       |
| Noise Figure:   | 850-3000 MHz   |                |                       | 950-4000MHz           |                |                       |
|   | (Splitter) 10 dB Max.  |                | (Combiner) 25 dB Max. | (Splitter) 10 dB Max. |                | (Combiner) 23 dB Max  |
|   | 950-2450 MHz   |                |                       | 950-2450 MHz          |                |                       |
|   | (Splitter) 8 dB Max.   |                | (Combiner) 22 dB Max. | (Splitter) 8 dB Max.  |                | (Combiner) 20 dB Max. |
| OIP3: Default Gain  | 10 dBm Min   |                | 10 dBm Min            | 10 dBm Min            |                | 10 dBm Min            |
| Input Return Loss:  | 850-3000 MHz   |                |                       | 950-4000MHz           |                |                       |
|   | 12 dBm   |                | 12 dBm                | 12 dBm                |                | 12 dBm                |
|   | 950-2450 MHz   |                |                       | 950-2450 MHz          |                |                       |
|   | 14 dBm   |                | 14 dBm                | 14 dBm                |                | 14 dBm                |
| Output Return Loss:   | 14 dBm   |                | 14 dBm                | 14 dBm                |                | 14 dBm                |
| Isolation: Port to Port (Same Divider)                                    | 18 dBm   |                | 18 dBm                | 18 dBm                |                | 14 dBm                |
| Isolation: Between Dividers:  | 50 dBm   |                | 50 dBm                | 50 dBm                |                | 50 dBm                |
| <b>Power Requirements:</b>  |  |                |                       |                       |                |                       |
| AC Input Range*:  | 100-240 VAC Autoranging 50/60 Hz 5A <b>Single and Redundant Power options available</b>                        |                |                       |                       |                |                       |
| DC Input Range*:  | 12-24V DC, or -48VDC* via 2-pin quick connect <b>Single and Redundant Power options available</b>              |                |                       |                       |                |                       |
| Max Input Power (No Damage)   | 20 dBm (30 VDC max on any port)  |                |                       |                       |                |                       |
| LNB Power*:<br>10W Typical power consumption plus customer LNB Power Load | AC Input Options: Switched 24V @500mA*   |                |                       |                       |                |                       |
|   | DC INput Options: Switched LNB Power (voltage matches input)   |                |                       |                       |                |                       |
|   | 13V/18V, 22Hz tone switchable @ 750mA max*   |                |                       |                       |                |                       |
| Size:   | 1 RU (1.75" H x 19" W x 7" D)  |                |                       |                       |                |                       |
| Weight:   | 6 lbs. gross (boxed) 3lbs. net   |                |                       |                       |                |                       |

\* Denotes optional features \*\*Typical refers to expected product performance that is useful in application of the product but is not covered by the product warranty  
\*Specifications may vary with connector type. See individual specification sheet for specific performance data.