Power Dividers / Combiners

POWER DIVIDERS / COMBINERS:

The Haigh-Farr's versatile line of power dividers/combiners provide 2, 3, 4, or 6-way division and are available from UHF to Ka-Band frequencies. Complementing the line of equal amplitude in-phase models, unequal amplitude distribution, phase progression, quadrature hybrid models, and Wilkinson (isolated) power dividers are available. These devices are reciprocal; they work as a divider or a combiner.

All of Haigh-Farr's power dividers/combiners are highly ruggedized and can handle extreme dynamic and thermal environments.

For most applications power dividers/combiners are provided flat, but may be provided curved to naturally mate with cylindrical or conical surfaces. Phase matched cables are available.

Haigh-Farr power dividers/combiners utilize the same well-proven, rugged construction as our Wraparound™, Flexislot™, and Omnislot™ antennas.

APPLICATIONS:

- Launch Vehicles
- Atmospheric Rockets
- Spacecraft
- Aircraft, Helicopters
- UAVs
- Multi-Element System

FEATURES:

- Frequencies from UHF to Ka-Band
- 2, 3, 4, or 6-way designs are available
- Equal Amplitude Distributions and Phase Progression models available
- Small, Compact Footprint
- Conformal and Custom Footprints Available
- Built for Extreme Shock & Vibration

CUSTOM ANTENNA DESIGN

Haigh-Farr designs custom antennas to meet customer specifications.

LEVERAGE EXISTING DESIGNS

Haigh-Farr can take an existing design and customize it to meet your application, saving NRE dollars and design time.

IN-HOUSE CAPABILITIES

Manufacturing & testing is done in-house.

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STANDARD PART NUMBERS

Haigh-Farr's catalog of Power Dividers/Combiners includes the following standard offerings. In addition, Haigh-Farr has a multitude of existing designs for unique frequencies/splits and can leverage these designs to create a custom solution, if needed.

2-Way Power Divider / Combiner

P/N	Band	Frequency Range GHz	Ports	Split	Size
2162-FB	UHF	0.400 – 0.475	2-way	equal	3.00" x 2.40" x 0.17"
2171	UHF	0.400 – 0.450	2-way	equal	1.96" x 1.39" x 0.09"
1718-FB*	L/S	1.10 – 2.30	2-way	equal	3.00" x 2.20" x 0.16"
2030-FB	S	2.20 – 2.40	2-way	equal	2.80" x 2.00" x 0.17"
2038-1-FB	S	2.20 – 2.40	2-way	80/20	2.80" x 2.00" x 0.17"
2033-2-FB	C	5.40 – 5.90	2-way	equal	2.80" x 2.00" x 0.17"
25365-X	S/C/X	2.00 – 9.00	2-way	equal	2.25" x 1.35" x 0.230
12080-FB	L/S/C	1.00 – 6.00	2-way	equal	3.40" x 2.40" x 0.17"
42515	Ka	30 - 31 GHz	2-way	equal	2.00" x 2.25" x 0.90"
42525	Ka	20.2 - 21.2 GHz	2-way	equal	2.25" x 2.50" x 0.90"

2-Way Isolated Wilkinson Power Divider / Combiner

P/N	Band	Frequency Range GHz	Ports	Split	Size
2235-1993-FB	L	1575.42 ± 10 MHz	2-way	equal	3.50" x 2.90" x 0.17"
2235-2033-1-FB	C	4.2 - 4.4	2-way	equal	3.00" x 2.40" x 0.17"

4-Port Quadrature Hybrid

P/N	Band	Frequency Range GHz	Ports	Split	Size
QH2-19020-2	UHF	400 - 450 MHz	2 Input/2 Output	equal	3.50" x 2.90" x 0.17"
11630	UHF	418 - 428 MHz	2 Input/2 Output	equal	3.75" x 3.15" x 0.17"
1996-FB	UHF	418 - 428 MHz	2 Input/2 Output	equal	3.50" x 2.90" x 0.17"
1993-FB	L	1565.42 - 1585.42 MHz	2 Input/2 Output	equal	3.50" x 2.90" x 0.17"
1991-FB	S	2.00 - 2.20	2 Input/2 Output	equal	3.00" x 2.40" x 0.17"
11620	S	2.20 - 2.40	2 Input/2 Output	equal	3.25" x 2.65" x 0.17"
1990-FB	S	2.20 - 2.40	2 Input/2 Output	equal	3.00" x 2.40" x 0.17"

- VSWR: 1.5:1 Max / 1.2:1 Typical
- Impedance: 50 Ohms
- Insertion loss: <1dB
- Connector: SMA and TNC options available
- Dimensions are provided. Mechanical outline drawings available upon request.
- Environmental: Typical for supersonic tactical missiles and kinetic kill weapons

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