



BUTTON ANTENNAS



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Haigh-Farr Button antennas are designed for applications where size and weight are critical. Models cover frequencies ranging from UHF to X-Band, and provide the omnidirectional coverage of a monopole in a rugged package. Select models have a filled-in overhead null, and, therefore, provide the added benefit of full hemispherical coverage.

Haigh-Farr Button antennas, with years of demonstrated reliability, utilize proven materials and methods of construction, providing a solid package that requires only one "D" hole in the vehicle for mounting. Superb protection is obtained through the use of a high-impact, high-temperature radome, with excellent properties for environments containing moisture and contaminants.

APPLICATIONS:

- Data Links, Telemetry, Transponder
- Aircraft
- UAVs
- Helicopters
- Tactical Missiles
- Ships
- Ground-Based Vehicles
- Supersonic aircraft
- Single or Array Implementations with Power Dividers and Cables

FEATURES:

- Omni-directional Coverage in Azimuth
- Overhead Null in Elevation Pattern (Most Models)
- Models 2107, 2207, 13215, & 13230 have the overhead null filled in.
- Frequencies from UHF to X-Band
- Input impedance of 50 Ohms
- Vertical Polarization
- Compatible with high power transponders
- TNC and SMA connector options available
- See representative radiation plots on the following page. Additional plots available upon request.
- Small, Compact Footprint
- High Impact Radome Material
- Built to Withstand Extreme Shock & Vibration Environments



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.



PART NUMBERS

STANDARD BUTTONS

Button P/N	Frequency Range GHz	Frequency Band	Connector Options	VSWR Max	Power Handling	Drawing	Height Inches [mm]	Diameter Inches [mm]	Weight OZ [grams]	P/N Options
6175	0.356 – 0.381	UHF	TNC	2.1:1	30 Watts	F	7 [177.80]	0.95 [24.1]	4.23 [120]	6175 - TNC, Black Radome
6160-FFF	Centered between .420 – .600 50 MHz bandwidth	UHF	TNC / SMA	2:1	30 Watts	F	6.30 [160.0]	0.95 [24.1]	3.5 [99]	6160-FFF - TNC, Black Radome 6160S-FFF - SMA, Black Radome
6180-FFF	310 - 355 MHz	UHF	TNC / SMA	<2.1:1		F			5.25 [150g]	6180-FFF - TNC, Black Radome 6180S-FFF - SMA, Black Radome
13120	0.9 – 1.625	UHF/ L-Band	TNC	2:1	30 Watts	A	2.69 [68.3]	0.92 [23.4]	2.63 [74.6]	13120 - TNC, White Radome
BN1-13100	1.2 – 3.4	L/S	SMA / TNC	2.15:1	30 Watts	A	1.94 [49.28]	0.92 [23.4]	2 [57]	BN1-13100 - SMA, White Radome BN1-13100T - TNC, White Radome BN1-13100-BLK - SMA, Black Radome BN1-13100T-BLK - TNC, Black Radome
BN1-13110	1.4 – 2.7 and 4.0 – 5.5	L/S/C	SMA / TNC	2:1	30 Watts	B	1.82 [46.2]	0.92 [23.4]	1.82 [46.23]	BN1-13110 - SMA, White Radome BN1-13110-BLK - SMA, Black Radome BN1-13110T - TNC, White Radome BN1-13110T-ER - TNC, White Radome, Environmentally Robust 13110S-ER - SMA, White Radome, Environmentally Robust
13130	1.4 – 2.7 and 4.2 – 5.85	L/S/C	SMA	2:1	30 Watts	B	1.81 [46.0]	0.92 [23.4]	1.9 [55]	13130 - SMA, White Radome
13200	1.4 – 7.0	L/S/C	SMA	1.8:1	30 Watts	E	1.74 [44.1]	2.13 [54]	6 [170]	13200 - SMA, White Radome
55445	1.6 – 2.5	L/S	SMA	2.5:1	30 Watts	D	1.36 [34.4]	1.80 [45.7]	5.2 [147]	55445 - SMA, White Radome
BN3-13090	1.7 – 3.0 and 4.4 – 5.9	L/S/C	SMA	2:1	30 Watts	A	1.51 [38.43]	0.92 [23.4]		BN3-13090 - SMA, White Radome
3106-1	2.0 – 2.7	S-Band	TNC	2:1	30 Watts	A	1.05 [26.67]	0.92 [23.4]	1.5	3106-1 - TNC, White Radome
3106	2.20 – 2.50	S-Band	TNC / SMA	1.5:1	30 Watts	A	1.25 [31.8]	0.92 [23.4]	1.5	3106 - TNC, White Radome 3106S - SMA, White Radome 3106ELS - Extra Long SMA, White Radome 3106-R - TNC, White Radome, Directional
13140	2.2 – 6	L/S/C	SMA / TNC	1.75:1	30 Watts	A	1.05 [26.67]	0.92 [23.4]	1.3 [37]	13140 - SMA, White Radome 13140-BLK - SMA, Black Radome 13140T - TNC, White Radome
2215	4.4 – 4.95	C-Band	TNC / SMA	1.75:1	30 Watts	A	1.45 [37]	1.20 [30]	1.4 [40]	2215 - TNC, White Radome 2215S - SMA, White Radome
3107-1	4.40 – 5.00	C-Band	TNC / SMA	1.5:1	30 Watts	A	0.95 [24.1]	0.92 [23.4]	1.1	3107-1 - TNC, White Radome 3107S-1 - SMA, White Radome
3107S-1-HP	4.40 – 5.00	C-Band	SMA	1.5:1	80 Watts	C	0.95 [24.1]	0.92 [23.4]	1.0 [29]	3107S-1-HP - SMA, High Power, White Radome
13210	4.4 – 5.9	C-Band	SMA	1.75:1	30 Watts	A	1.32 [33.4]	0.94 [23.9]	1.8 [52]	13210 - SMA, White Radome
2216	5.25 – 5.85	C-Band	TNC	1.5:1	30 Watts	A	0.48 [12.2]	0.92 [23.4]	0.9 [26]	2216 - TNC, White Radome
3107	5.40 – 5.90	C-Band	TNC / SMA	1.5:1	30 Watts	A	0.75 [19.0]	0.92 [23.4]	1.0 [29]	3107 - TNC, White Radome 3107S - SMA, White Radome
3107S-HP	5.40 – 5.90	C-Band	SMA	1.5:1	80 Watts	C	0.95 [24.1]	0.92 [23.4]	1.0 [29]	3107S-HP - SMA, White Radome, High Power
13000T-ER	5.40 – 5.90	C-Band	TNC	1.5:1	30 Watts	C	0.95 [24.1]	0.92 [23.4]	0.75 [22.3]	13000T-ER - TNC, White Radome, Environmentally Robust
3108	5.40 – 9.60	C/X	TNC / SMA	2.2:1	30 Watts	A	0.75 [19.0]	0.92 [23.4]	1.0 [33]	3108 - TNC, White Radome 3108S - SMA, White Radome
3108-1	6.40 – 7.20	C-Band	TNC / SMA	1.5:1	30 Watts	A	0.75 [19.0]	0.92 [23.4]	1.0 [33]	3108-1 - TNC, White Radome 3108S-1 - SMA, White Radome
13190	7.7 – 11.5	C/X	TNC	2:1	30 Watts	A	0.75 [19.05]	0.92 [23.4]	1.0 [30]	13190 - TNC, White Radome
3108-3	8.00 – 10.50	X-Band	TNC / SMA	2:1	30 Watts	A	0.75 [19.0]	0.92 [23.4]	1.0 [33]	3108-3 - TNC, White Radome 3108S-3 - SMA, White Radome
13180	8.0 – 12.0	X-Band	TNC	3.3:1	30 Watts	A	0.48 [12.2]	0.92 [23.4]	1.0 [28]	13180 - TNC, White Radome

OVERHEAD NULL FILLED BUTTONS

Button P/N	Frequency Range GHz	Frequency Band	Connector Options	VSWR Max	Power Handling	Drawing	Height Inches [mm]	Diameter	Weight OZ [grams]	P/N Options
13230	1.2 – 1.4	L-Band	TNC	2.2:1	30 Watts	D	1.36 [34.4]	1.80 [45.7]	5 [135]	13230 - TNC, White Radome
13215	1.43 – 2.50	L/S	TNC / SMA	2:1	30 Watts	D	1.36 [34.4]	1.80 [45.7]	5.1 [144]	13215 - TNC, White Radome 13215-BLK - TNC, Black Radome 13215S - SMA, White Radome 13215S-GY - SMA, Gray Radome
2207	4.40 – 5.00	C-Band	TNC / SMA	1.75:1	30 Watts	A	0.63 [16.0]	1.20 [30]	1.41 [40]	2207 - TNC, White Radome 2207S - SMA, White Radome 2207-ER - TNC, White Radome, Environmentally Robust
2107	5.40 – 5.90	C-Band	TNC / SMA	1.5:1	30 Watts	A	0.48 [12.2]	0.92 [23.4]	0.9 [26]	2107 - TNC, White Radome 2107S - SMA, White Radome