



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.



BUTTON ANTENNAS

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	2.2:1	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]	1.4 [40] MAX	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