



DIRECTION FINDING ANTENNAS



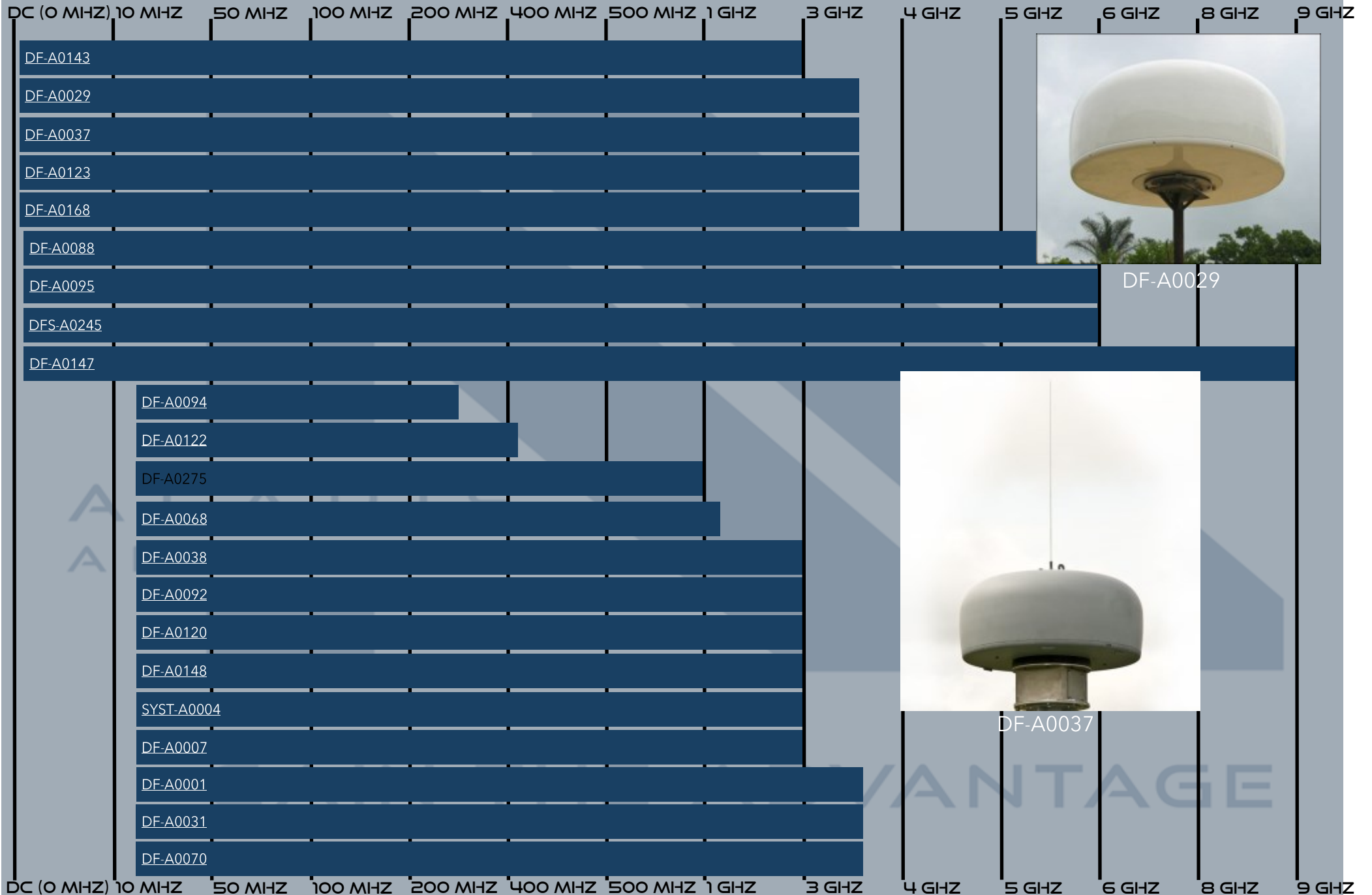
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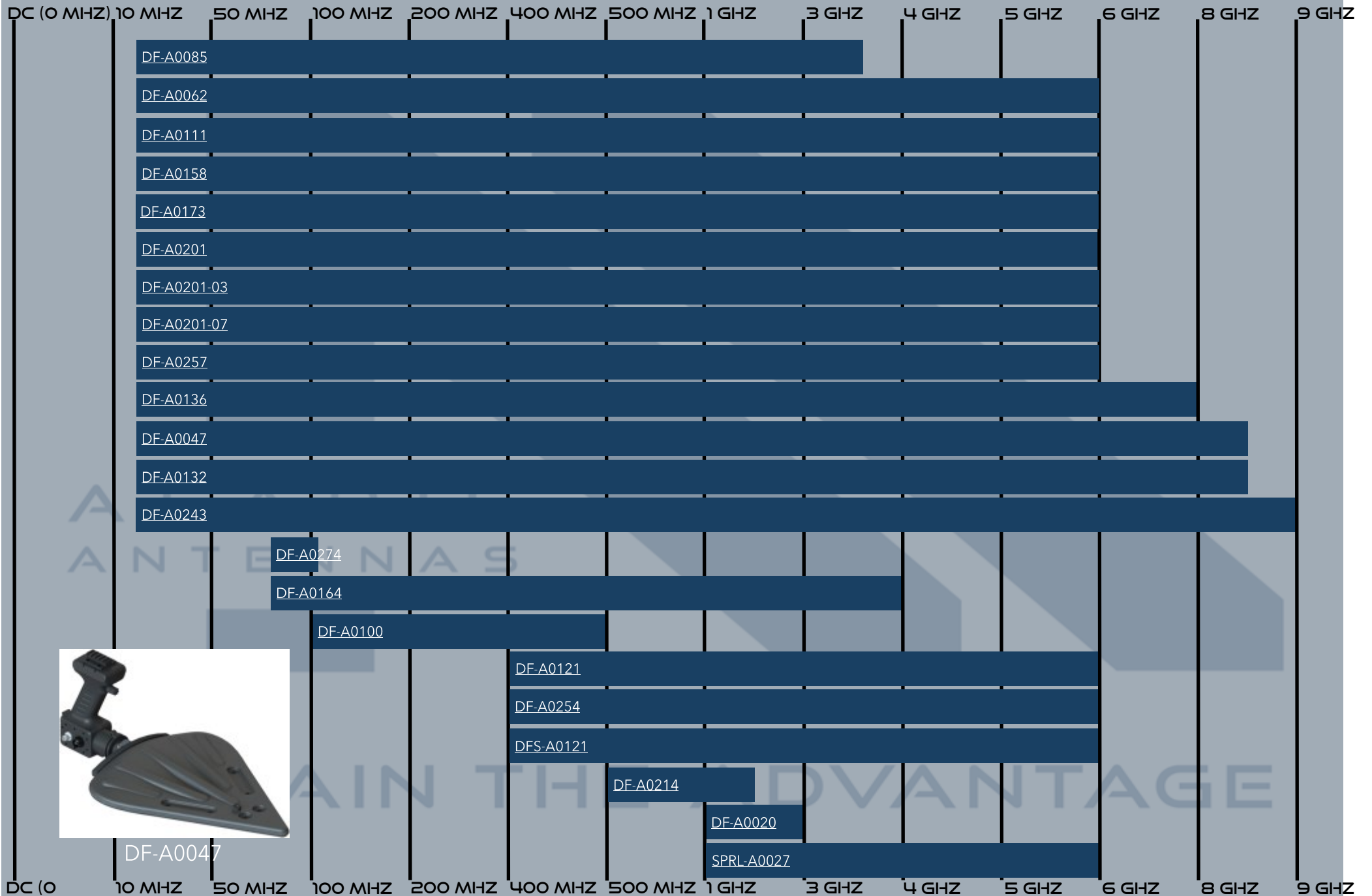
GAIN THE ADVANTAGE

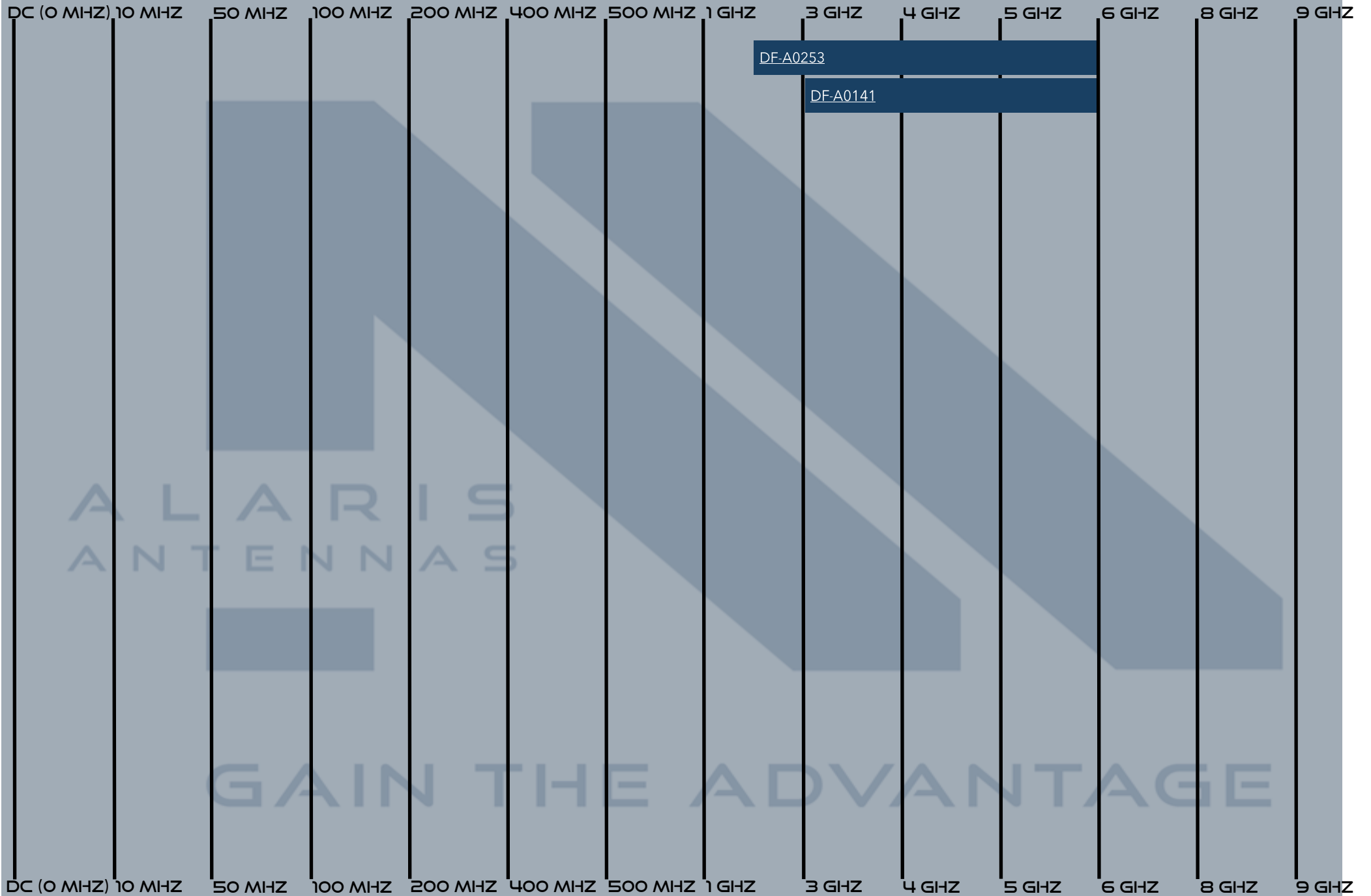
DIRECTION FINDING ANTENNAS

A direction finding antenna is used in spectrum monitoring, ITU applications, transmitter fault finding and EW systems to establish the direction from which a received signal was transmitted. Alaris Antennas designs and manufactures direction finding (DF) antennas of all sizes, for all applications. We have been constructing and testing direction finding antennas for over a decade. These antennas come in a range of different sizes from briefcase carried hand-operated DF antennas to large mast-mounted arrays. Between these two extremes lie a series of vehicle, tripod, helicopter, ship and submarine-mounted antennas.





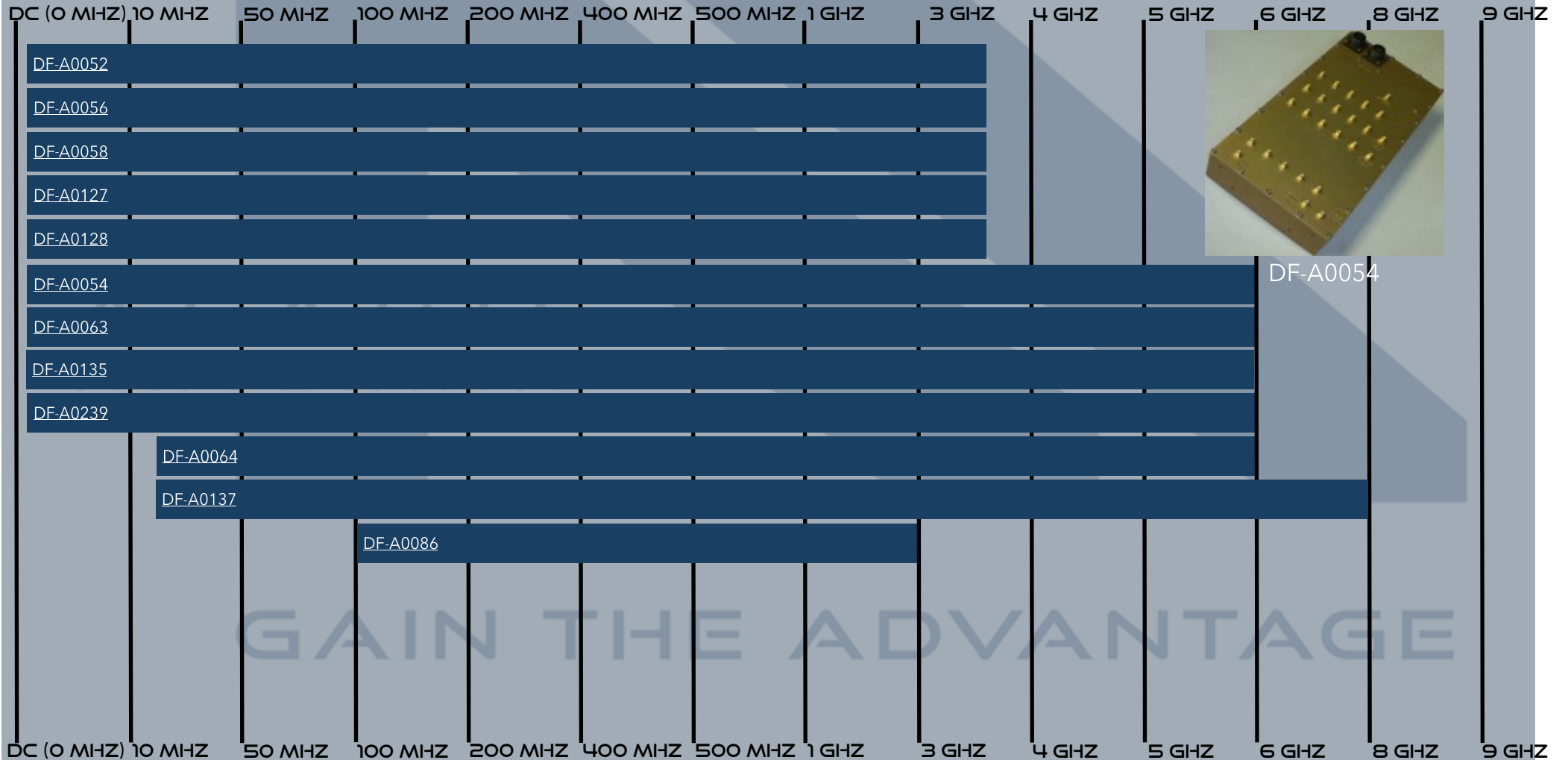




DF SWITCHES & ENCLOSURES

Alaris Antennas designs and manufactures a range of DF Switches, to complement our DF antenna range.

DF SWITCHES



DF SWITCH ENCLOSURES

DC (0 MHz) 10 MHz 50 MHz 100 MHz 200 MHz 400 MHz 500 MHz 1 GHz 3 GHz 4 GHz 5 GHz 6 GHz 8 GHz 9 GHz

DF-A0057

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DC (0 MHz) 10 MHz 50 MHz 100 MHz 200 MHz 400 MHz 500 MHz 1 GHz 3 GHz 4 GHz 5 GHz 6 GHz 8 GHz 9 GHz

DF ANTENNAS

Antenna	Product Description	Frequency	Gain	Polarisation	L (mm)	D (mm)	H (mm)	W (mm)	Mass	Connector	Power
MISC-A0063	Isolation Pole for DF Antenna	-	-	-	-	462 mm (01) 470 mm (02) 470 mm (04)	1203 mm (01) 1443 mm (02) 232 mm (04)	-	< 36 kg (01) < 60 kg (02) < 24 kg (04)	-	-
MONO-A0084	Tactical HF Active Monopole	0.009 - 30 MHz	-	Vertical	4500 mm	300 mm	-	-	7 kg	N-Type (f)	-
DF-A0016	HF DF Loop Array	0.3 - 30 MHz	See Data Sheet	Vertical	5200 mm	3300 mm	-	-	< 30 kg	N-Type (f)	Receive Only
DF-A0015	Active Adcock Direction Finding Array	1 - 30 MHz	See Data Sheet	Vertical	-	16000 mm	2800 mm	-	98.5 kg	N-Type (f)	-
DF-A0048	HF DF Antenna	1 - 30 MHz	-	Vertical	< 1200 mm	-	200 mm	200 mm	< 8.3 kg	N-Type (f)	Receive Only
DF-A0049	Quick Deployment HF NVIS DF Element	1 - 30 MHz	-	Linear, vertical, LCP or RCP	-	< 1600 mm	< 2250 mm	-	< 8.3 kg	N-Type (f)	Receive Only
DF-A0076	Active Adcock Direction Finding Array	1 - 30 MHz	See Data Sheet	Vertical	-	50000 mm	2800 mm	-	197 kg	N-Type (f)	-
DF-A0115	Strategic High Sensitivity HF NVIS DF Element	1 - 30 MHz	-	Linear, vertical, LCP or RCP	-	< 3000 mm	< 4510 mm	-	< 60 kg	N-Type (f)	Receive Only
DF-A0172	Quick Deployment Active HF NVIS DF Element	1 - 30 MHz	-	Linear, vertical, LCP or RCP	-	< 1600 mm	< 2250 mm	-	< 8.3 kg	N-Type (f)	Receive Only
MONO-A0076	HF Passive Monopole	1 - 30 MHz	See Data Sheet	Vertical	9000 mm	300 mm	-	-	14 kg	N-Type (f)	-
MONO-A0079	HF Passive Monopole	1 - 30 MHz	See Data Sheet	Vertical	10000 mm	550 mm	3556 mm	-	19 kg	N-Type (f)	-
MONO-A0085	HF Active Monopole	1 - 30 MHz	See Data Sheet	Vertical	4000 mm	300 mm	-	-	< 10 kg	N-Type (f)	-
MONO-A0097	HF Active Monopole	1 - 30 MHz	See Data Sheet	Vertical	300 mm	-	7500 mm	300 mm	< 30 kg	N-Type (f)	-
DF-A0113	HF On-the-March DF Interferometer	1 - 88 MHz	-	Vertical	-	260 mm	1148 mm	-	< 2.5 kg	-	-
DF-A0114	HF On-the-March Watson Watt Antenna	1 - 88 MHz	-	Vertical	-	170 mm	1000 mm	-	< 3 kg	-	< 1 W
DF-A0134	HF Mobile Watson Watt Antenna	1 - 88 MHz	See Data Sheet	Vertical	-	170 mm	1700 mm	-	< 5 kg	-	< 1 W
DF-A0143	Compact DF Antenna	1 - 3000 MHz	-	-	-	450 mm	490 mm	-	4.2 kg	-	< 1 W
DF-A0029	Wideband Portable DF Antenna	1 - 3600 MHz	-	Vertical	-	1100 mm	548 mm	-	26 kg	SMA (m)	0.25 W (Receive Only)
DF-A0037	Rugged Wideband DF	1 - 3600 MHz	-	Vertical	-	1100 mm	2052 mm	-	80 kg	-	0.25 W (Receive Only)

Antenna	Product Description	Frequency	Gain	Polarisation	L (mm)	D (mm)	H (mm)	W (mm)	Mass	Connector	Power
DF-A0123	Wideband Marine DF Antenna	1 - 3600 MHz	-	Vertical	-	2600 mm	3600 mm	-	< 95 kg		
DF-A0168	Wideband Portable DF Antenna	1 - 3600 MHz	-	Vertical	-	1100 mm	731 mm	-	33 kg	-	0.5 W (Receive Only)
DF-A0088	Rugged Wideband DF Antenna	1 - 6000 MHz	-	Vertical	-	1100 mm	2264 mm	-	85 kg	-	0.25 W (Receive Only)
DF-A0095	Wideband Portable DF Antenna	1 - 6000 MHz	-	Vertical	-	1100 mm	731 mm	-	33 kg	-	0.25 W (Receive Only)
DFS-A0245	Manpack/Mobile DF Antenna Systems	1 - 6000 MHz	-	Vertical	-	85 mm	< 800 mm	-	< 9 kg	MIL-38999	-
DF-A0147	Rugged Wideband DF Antenna	1 - 9000 MHz	-	Vertical	-	1100 mm	2264 mm	-	85 kg	-	0.25 W (Receive Only)
DF-A0094	Direction Finding & Monitoring Antenna	20 - 300 MHz	-	Vertical	-	< 2670 mm	< 1600 mm	-	< 35 kg	TNC (m)	-
DF-A0122	Direction Finding & Monitoring Antenna	20 - 410 MHz	-	Vertical	-	< 2200 mm	< 1400 mm	-	< 30 kg	TNC (m)	-
DF-A0275	8-Element Direction Finding Antenna	20 - 1000 MHz	-	Vertical	-	1200 mm	1600 mm	-	85 kg	TNC (m)	-
DF-A0068	DF Antenna with Integrated Monitoring	20 - 1300 MHz	-	Vertical	-	2700 mm	3000 mm	-	40 kg	N-Type (m)	-
DF-A0038	Direction Finding & Monitoring Antenna	20 - 3000 MHz	-	Vertical	-	2700 mm	3400 mm	-	55 kg	N-Type (m)	< 2.25 W
DF-A0092	Maritime Direction Finding Antenna	20 - 3000 MHz	-	Vertical	-	2670 mm	2640 mm	-	55 kg	TNC (m)	-
DF-A0120	Manpack/Mobile Watson Watt DF Antenna	20 - 3000 MHz	-	Vertical	-	83 mm	800 mm	-	< 2 kg	-	< 1 W
DF-A0148	Manpack/Mobile Watson Watt DF Antenna	20 - 3000 MHz	-	Vertical	-	80 mm	600 mm	-	< 1 kg	-	< 1 W
SYST-A0004	DF and Monitoring Stack	20 - 3000 MHz	-	Vertical / Horizontal	-	2600 mm	5500 mm	-	125 kg	TNC (m), N-Type (m)	-
DF-A0007	5-Element Direction Finding Antenna	20 - 3000 MHz	-	Vertical	-	2584 mm	2582 mm	-	48 kg	TNC (m)	-
DF-A0001	5-Element Direction Finding Antenna	20 - 3600 MHz	-	Vertical	-	2584 mm	2582 mm	-	48 kg	TNC (m)	-
DF-A0031	Wideband Portable Direction Finding Antenna Array	20 - 3600 MHz	-	Vertical	-	2530 mm	3820 mm	-	20 kg	SMA (m) TNC (m)	-

Antenna	Product Description	Frequency	Gain	Polarisation	L (mm)	D (mm)	H (mm)	W (mm)	Mass	Connector	Power
DF-A0070	Wideband Mast-Mount DF Antenna	20 - 3600 MHz	-	Vertical	-	2600 mm	2300 mm	-	44 kg	SMA (m)	0.5 W (Receive Only)
DF-A0085	Dual-Polarised Direction Finding Antenna	20 - 3600 MHz	See Data Sheet	Vertical, Horizontal and LHCP	-	3524 mm	2672 mm	-	< 60 kg	SMA (m)	2 W
DF-A0062	Direction Finding & Monitoring Antenna	20 - 6000 MHz	-	Vertical	-	2700 mm	3600 mm	-	60 kg	N-Type (m)	-
DF-A0111	Compact Adcock DF Antenna	20 - 6000 MHz	-	Vertical	-	320 mm	690 mm	-	8.5 kg	N-Type (f)	< 1 W
DF-A0158	Compact Marine Adcock DF Antenna	20 - 6000 MHz	-	Vertical	-	320 mm	690 mm	-	8.5 kg	N-Type (f)	< 1 W
DF-A0173	Direction Finding & Monitoring Antenna	20 - 6000 MHz	-	Vertical & Horizontal	-	3800 mm	3600 mm	-	75 kg	SMA (m) N-Type (m)	< 2025 W
DF-A0201	Manpack/Mobile Watson Watt DF Antenna	20 - 6000 MHz	-	Vertical	-	83 mm	900 mm	-	< 2.5 kg	-	< 1 W
DF-A0201-03	Manpack/Mobile Watson Watt DF Antenna	20 - 6000 MHz	-	Vertical	-	135 mm	777 mm	-	< 1.75 kg	TNC (f) / MIL-DTL-38999	< 1 W
DF-A0201-07	Compact Adcock DF Antenna	20 - 6000 MHz	-	Vertical	-	135 mm	780 mm	-	< 2.5 kg	MIL-DTL-38999 Multi-Pin	-
DF-A0257	Compact Adcock DF Antenna	20 - 6000 MHz	-	Vertical	-	100 mm	400 mm	-	< 1.5 kg	MIL-DTL-38999 Multi-Pin	-
DF-A0136	Direction Finding & Monitoring Antenna	20 - 8000 MHz	-	Vertical	-	2700 mm	3600 mm	-	60 kg	N-Type (m)	< 2.25 W
DF-A0047	Handheld Direction Finding Antenna	20 - 8500 MHz	6 dBi (> 600 MHz)	Adjustable, Vertical or horizontal	543 mm	60 mm	-	320 mm	1.8 kg	-	-
DF-A0132	Drone Mountable Directional Antenna	20 - 8500 MHz	6 dBi (> 600 MHz)	Mount adjustable, vertical or horizontal	443 mm	50 mm	-	320 mm	< 1 kg	-	-
DF-A0243	Manpack/Mobile Watson Watt DF Antenna	20 - 9000 MHz	-	Vertical	-	83 mm	900 mm	-	< 2.5 kg	MIL-38999 / 26ZJ24PN	< 1 W
DF-A0274	8-Element Direction Finding Antenna	80 - 108 MHz	-	Vertical	-	1400 mm	4000 mm	-	TBD	TNC (m)	-
DF-A0164	8-Element Direction Finding Antenna	80 - 4000 MHz	-	Vertical	-	3000 mm	2640 mm	-	85 kg	TNC (m)	-
DF-A0100	UHF Interferometer	100 - 500 MHz	-	Vertical	-	1480 mm	2135 mm	-	< 50 kg	TNC (m)	-
DF-A0121	Compact Dual Band Direction Finding Antenna	400 - 6000 MHz	-	Vertical	-	304 mm	720 mm	-	< 12 kg	TNC (f)	-
DF-A0254	Compact Adcock DF Antenna	400 - 6000 MHz	-	Vertical	-	83 mm	385 mm	-	< 2 kg	MIL-DTL-38999	-

Antenna	Product Description	Frequency	Gain	Polarisation	L (mm)	D (mm)	H (mm)	W (mm)	Mass	Connector	Power
DFS-A0121	Compact Direction Finding Antenna System	400 - 6000 MHz	-	-	-	-	-	-	-	-	-
DF-A0214	Compact Adcock DF Antenna	500 - 2000 MHz	-	Vertical	-	86 mm	200 mm	-	< 2 kg	SMA (f)	< 1 W
DF-A0020	DF Antenna	1000 - 3000 MHz	0 dBi	Vertical	-	300 mm	550 mm	-	10 kg	-	-
SPRL-A0027	Cavity Backed Spiral Antenna	1000 - 6000 MHz	3 to 5 dBi	LHCP & RHCP	72 mm	163 mm	-	-	500 g	SMA (f)	10 W CW
DF-A0253	Compact Adcock DF Antenna	2000 - 6000 MHz	-	Vertical	-	83 mm	388 mm	-	< 2 kg	SMA (f)	< 1 W
DF-A0141	Compact DF Antenna	3000 - 6000 MHz	0 dBi	Vertical	-	80 mm	770 mm	-	< 5 kg	-	-

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DF SWITCHES

Antenna	Product Description	Frequency	Gain	Polarisation	L (mm)	D (mm)	H (mm)	W (mm)	Mass	Connector	Power
DF-A0052	High-Speed DF Antenna Commutating Switch	1 - 3600 MHz	10 to 15 dB	-	317 mm	-	80 mm	168 mm	< 4 kg	SMA (f)	-
DF-A0056	5-Channel Band Switch with Omni Amplifiers	1 - 3600 MHz	8 to 18 dB	-	317 mm	-	80 mm	168 mm	3.2 kg	SMA (f)	-
DF-A0058	5-Channel Band Switch with Omni Amplifiers	1 - 3600 MHz	8 to 18 dB	-	317 mm	-	80 mm	168 mm	3.2 kg	SMA (f)	-
DF-A0127	5-Channel Band Switch with Omni Amplifiers	1 - 3600 MHz	8 to 19 dB	-	317 mm	-	80 mm	168 mm	< 4 kg	SMA (f)	-
DF-A0128	5-Channel Band Switch with Omni Amplifiers	1 - 3600 MHz	8 to 19 dB	-	317 mm	-	80 mm	168 mm	< 4 kg	SMA (f)	-
DF-A0054	High-Speed DF Antenna Band Switch	1 - 6000 MHz	8 to 9 dB	-	317 mm	-	80 mm	168 mm	3.2 kg	SMA (f)	-
DF-A0063	High-Speed DF Antenna Commutating Switch	1 - 6000 MHz	9 to 15 dB	-	317 mm	-	80 mm	168 mm	< 4 kg	SMA (f)	-
DF-A0135	High-Speed DF Antenna Commutating Switch	1 - 6000 MHz	9 to 15 dB	-	317 mm	-	80 mm	168 mm	< 4 kg	SMA (f)	-
DF-A0239	High-Speed DF Antenna Commutating Switch	1 - 6000 MHz	-	-	317 mm	-	40 mm	170 mm	< 1.5 kg	SMA (f)	-
DF-A0064	High-Speed DF Antenna Band Switch	20 - 6000 MHz	13 to 18 dB	-	317 mm	-	80 mm	168 mm	< 4 kg	SMA (f)	-
DF-A0137	High-Speed DF Antenna Band Switch	20 - 8000 MHz	13 to 23 dB	-	353 mm	-	57 mm	168 mm	4 kg	SMA (f)	-
DF-A0086	High-Speed DF Band Switch	100 - 3000 MHz	10 dB	-	317 mm	-	80 mm	168 mm	2.8 kg	SMA (f)	-

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DF SWITCH ENCLOSURES

Antenna	Product Description	Frequency	Gain	Polarisation	L (mm)	D (mm)	H (mm)	W (mm)	Mass	Connector	Power
DF-A0057	Outdoor Housing for DF Switches	1 - 6000 MHz	-	-	458 mm	-	281 mm	201 mm	8.2 kg	TNC (f) N-Type (f)	-



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