



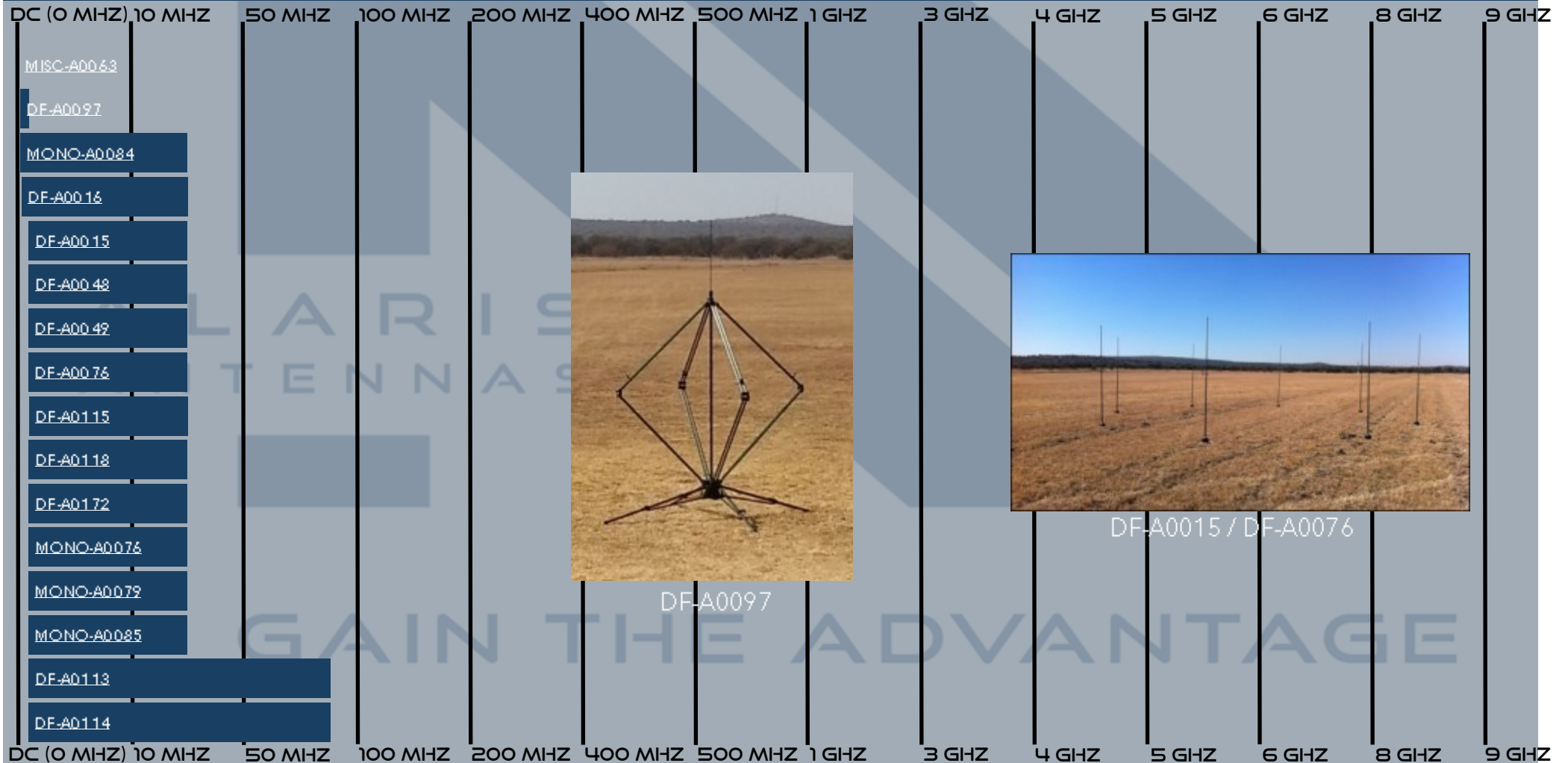
# DIRECTION FINDING ANTENNAS



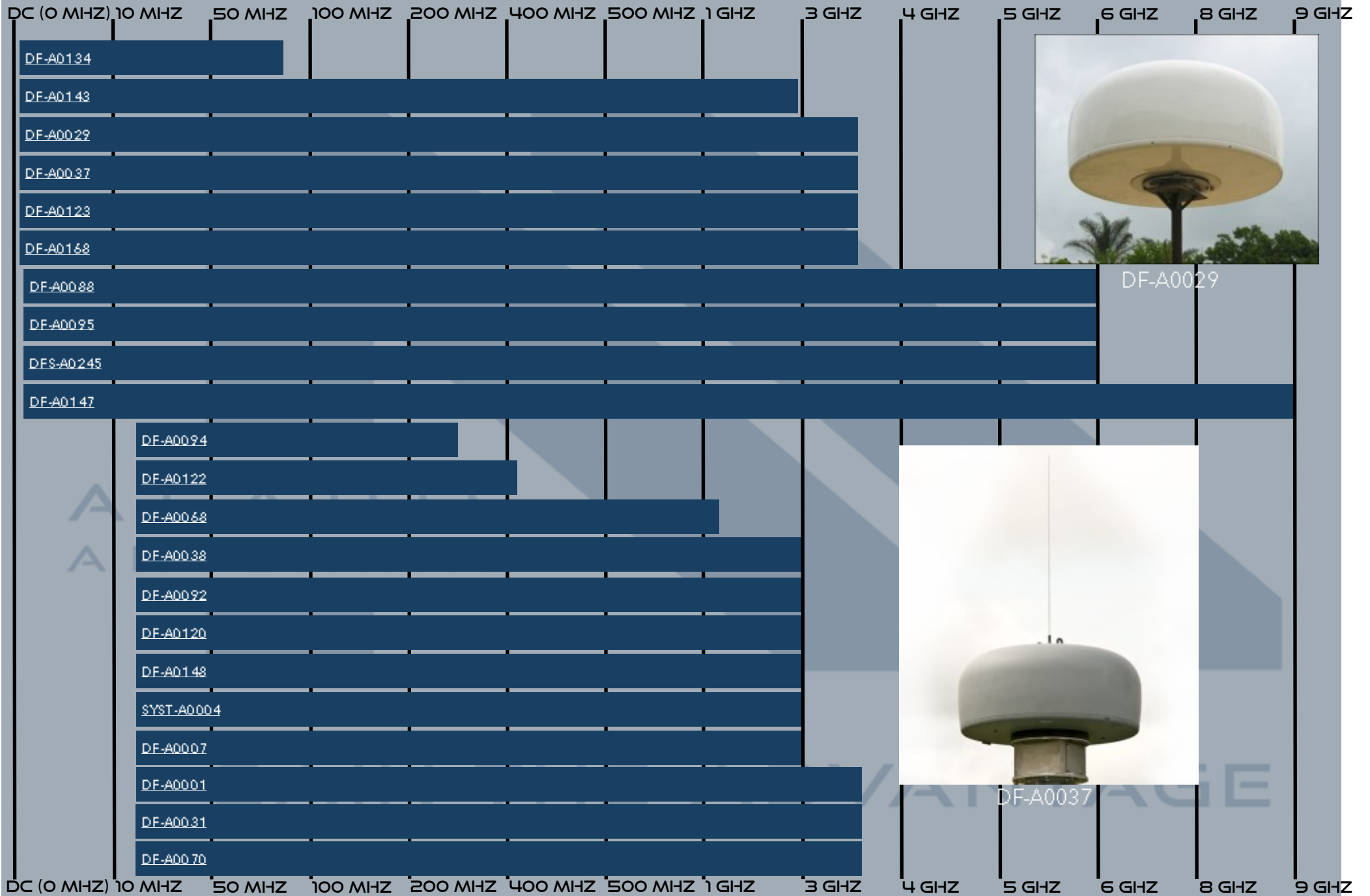
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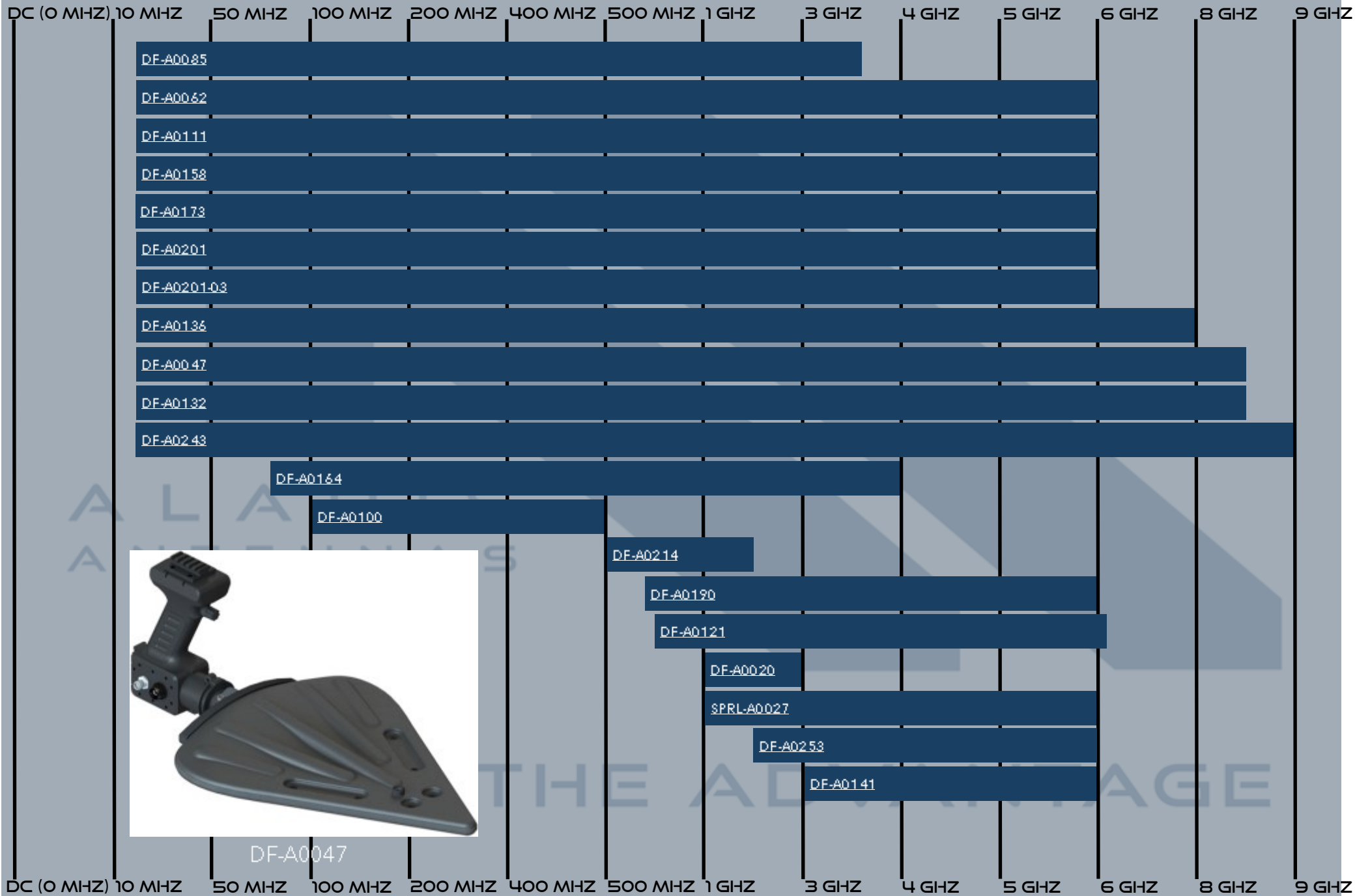
# DIRECTION FINDING ANTENNAS

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.



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# DF SWITCHES & ENCLOSURES

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

## DF SWITCHES



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# 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-A00.57

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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
<a href="#">MISC-A0063</a>	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)	-	-
<a href="#">DF-A0097</a>	Tactical VLF/LF/MF Watson Watt Antenna	0.009 - 1 MHz	-	Vertical	-	< 2000 mm	< 4500 mm	-	< 20 kg	N-Type (f)	Receive Only
<a href="#">MONO-A0084</a>	Tactical HF Active Monopole	0.009 - 30 MHz	-	Vertical	4500 mm	300 mm	-	-	7 kg	N-Type (f)	-
<a href="#">DF-A0016</a>	HF DF Loop Array	0.3 - 30 MHz	See Data Sheet	Vertical	5200 mm	3300 mm	-	-	< 30 kg	N-Type (f)	Receive Only
<a href="#">DF-A0015</a>	Active Adcock Direction Finding Array	1 - 30 MHz	See Data Sheet	Vertical	-	16000 mm	2800 mm	-	98.5 kg	N-Type (f)	-
<a href="#">DF-A0048</a>	HF DF Antenna	1 - 30 MHz	-	Vertical	< 1200 mm	-	200 mm	200 mm	< 8.3 kg	N-Type (f)	Receive Only
<a href="#">DF-A0049</a>	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
<a href="#">DF-A0076</a>	Active Adcock Direction Finding Array	1 - 30 MHz	See Data Sheet	Vertical	-	50000 mm	2800 mm	-	197 kg	N-Type (f)	-
<a href="#">DF-A0115</a>	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
<a href="#">DF-A0118</a>	Elevated HF Passive Monopole DF Element	1 - 30 MHz	See Data Sheet	Vertical	17000 mm	300 mm	-	-	14 kg	N-Type (f)	Receive Only
<a href="#">DF-A0172</a>	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
<a href="#">MONO-A0076</a>	HF Passive Monopole	1 - 30 MHz	See Data Sheet	Vertical	9000 mm	300 mm	-	-	14 kg	N-Type (f)	-
<a href="#">MONO-A0079</a>	HF Passive Monopole	1 - 30 MHz	See Data Sheet	Vertical	10000 mm	550 mm	3556 mm	-	19 kg	N-Type (f)	-
<a href="#">MONO-A0085</a>	HF Active Monopole	1 - 30 MHz	See Data Sheet	Vertical	4000 mm	300 mm	-	-	< 10 kg	N-Type (f)	-
<a href="#">DF-A0113</a>	HF On-the-March DF Interferometer	1 - 88 MHz	-	Vertical	-	260 mm	1148 mm	-	< 2.5 kg	-	-
<a href="#">DF-A0114</a>	HF On-the-March Watson Watt Antenna	1 - 88 MHz	-	Vertical	-	170 mm	1000 mm	-	< 3 kg	-	< 1 W
<a href="#">DF-A0134</a>	HF Mobile Watson Watt Antenna	1 - 88 MHz	See Data Sheet	Vertical	-	170 mm	1700 mm	-	< 5 kg	-	< 1 W
<a href="#">DF-A0143</a>	Compact DF Antenna	1 - 3000 MHz	-	-	-	450 mm	490 mm	-	4.2 kg	-	< 1 W

Antenna	Product Description	Frequency	Gain	Polarisation	L (mm)	D (mm)	H (mm)	W (mm)	Mass	Connector	Power
<a href="#">DF-A0029</a>	Wideband Portable DF Antenna	1 - 3600 MHz	-	Vertical	-	1100 mm	548 mm	-	26 kg	SMA (m)	0.25 W (Receive Only)
<a href="#">DF-A0037</a>	Rugged Wideband DF	1 - 3600 MHz	-	Vertical	-	1100 mm	2052 mm	-	80 kg	-	0.25 W (Receive Only)
<a href="#">DF-A0123</a>	Wideband Marine DF Antenna	1 - 3600 MHz	-	Vertical	-	2600 mm	3600 mm	-	< 95 kg		
<a href="#">DF-A0168</a>	Wideband Portable DF Antenna	1 - 3600 MHz	-	Vertical	-	1100 mm	731 mm	-	33 kg	-	0.5 W (Receive Only)
<a href="#">DF-A0088</a>	Rugged Wideband DF Antenna	1 - 6000 MHz	-	Vertical	-	1100 mm	2264 mm	-	85 kg	-	0.25 W (Receive Only)
<a href="#">DF-A0095</a>	Wideband Portable DF Antenna	1 - 6000 MHz	-	Vertical	-	1100 mm	731 mm	-	33 kg	-	0.25 W (Receive Only)
<a href="#">DFS-A0245</a>	Manpack/Mobile DF Antenna Systems	1 - 6000 MHz	-	Vertical	-	85 mm	< 800 mm	-	< 9 kg	MIL-38999	-
<a href="#">DF-A0147</a>	Rugged Wideband DF Antenna	1 - 9000 MHz	-	Vertical	-	1100 mm	2264 mm	-	85 kg	-	0.25 W (Receive Only)
<a href="#">DF-A0094</a>	Direction Finding & Monitoring Antenna	20 - 300 MHz	-	Vertical	-	< 2670 mm	< 1600 mm	-	< 35 kg	TNC (m)	-
<a href="#">DF-A0122</a>	Direction Finding & Monitoring Antenna	20 - 410 MHz	-	Vertical	-	< 2200 mm	< 1400 mm	-	< 30 kg	TNC (m)	-
<a href="#">DF-A0068</a>	DF Antenna with Integrated Monitoring	20 - 1300 MHz	-	Vertical	-	2700 mm	3000 mm	-	40 kg	N-Type (m)	-
<a href="#">DF-A0038</a>	Direction Finding & Monitoring Antenna	20 - 3000 MHz	-	Vertical	-	2700 mm	3400 mm	-	55 kg	N-Type (m)	< 2.25 W
<a href="#">DF-A0092</a>	Maritime Direction Finding Antenna	20 - 3000 MHz	-	Vertical	-	2670 mm	2640 mm	-	55 kg	TNC (m)	-
<a href="#">DF-A0120</a>	Manpack/Mobile Watson Watt DF Antenna	20 - 3000 MHz	-	Vertical	-	83 mm	800 mm	-	< 2 kg	-	< 1 W
<a href="#">DF-A0148</a>	Manpack/Mobile Watson Watt DF Antenna	20 - 3000 MHz	-	Vertical	-	80 mm	600 mm	-	< 1 kg	-	< 1 W
<a href="#">SYST-A0004</a>	DF and Monitoring Stack	20 - 3000 MHz	-	Vertical / Horizontal	-	2600 mm	5500 mm	-	125 kg	TNC (m), N-Type (m)	-
<a href="#">DF-A0007</a>	5-Element Direction Finding Antenna	20 - 3000 MHz	-	Vertical	-	2584 mm	2582 mm	-	48 kg	TNC (m)	-



Antenna	Product Description	Frequency	Gain	Polarisation	L (mm)	D (mm)	H (mm)	W (mm)	Mass	Connector	Power
<a href="#">DF-A0001</a>	5-Element Direction Finding Antenna	20 - 3600 MHz	-	Vertical	-	2584 mm	2582 mm	-	48 kg	TNC (m)	-
<a href="#">DF-A0031</a>	Wideband Portable Direction Finding Antenna Array	20 - 3600 MHz	-	Vertical	-	2530 mm	3820 mm	-	20 kg	SMA (m) TNC (m)	-
<a href="#">DF-A0070</a>	Wideband Mast-Mount DF Antenna	20 - 3600 MHz	-	Vertical	-	2600 mm	2300 mm	-	44 kg	SMA (m)	0.5 W (Receive Only)
<a href="#">DF-A0085</a>	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
<a href="#">DF-A0062</a>	Direction Finding & Monitoring Antenna	20 - 6000 MHz	-	Vertical	-	2700 mm	3600 mm	-	60 kg	N-Type (m)	-
<a href="#">DF-A0111</a>	Compact Adcock DF Antenna	20 - 6000 MHz	-	Vertical	-	320 mm	690 mm	-	8.5 kg	N-Type (f)	< 1 W
<a href="#">DF-A0158</a>	Compact Marine Adcock DF Antenna	20 - 6000 MHz	-	Vertical	-	320 mm	690 mm	-	8.5 kg	N-Type (f)	< 1 W
<a href="#">DF-A0173</a>	Direction Finding & Monitoring Antenna	20 - 6000 MHz	-	Vertical & Horizontal	-	3800 mm	3600 mm	-	75 kg	SMA (m) N-Type (m)	< 2025 W
<a href="#">DF-A0201</a>	Manpack/Mobile Watson Watt DF Antenna	20 - 6000 MHz	-	Vertical	-	83 mm	900 mm	-	< 2.5 kg	-	< 1 W
<a href="#">DF-A0201-03</a>	Manpack/Mobile Watson Watt DF Antenna	20 - 6000 MHz	-	Vertical	-	135 mm	777 mm	-	< 1.75 kg	TNC (f)	< 1 W
<a href="#">DF-A0136</a>	Direction Finding & Monitoring Antenna	20 - 8000 MHz	-	Vertical	-	2700 mm	3600 mm	-	60 kg	N-Type (m)	< 2.25 W
<a href="#">DF-A0047</a>	Handheld Direction Finding Antenna	20 - 8500 MHz	6 dBi (> 600 MHz)	Adjustable, Vertical or horizontal	543 mm	60 mm	-	320 mm	1.8 kg	-	-
<a href="#">DF-A0132</a>	Drone Mountable Directional Antenna	20 - 8500 MHz	6 dBi (> 600 MHz)	Mount adjustable, vertical or horizontal	443 mm	50 mm	-	320 mm	< 1 kg	-	-
<a href="#">DF-A0243</a>	Manpack/Mobile Watson Watt DF Antenna	20 - 9000 MHz	-	Vertical	-	83 mm	900 mm	-	< 2.5 kg	MIL-38999 / 26ZJ24PN	< 1 W
<a href="#">DF-A0164</a>	8-Element Direction Finding Antenna	80 - 4000 MHz	-	Vertical	-	3000 mm	2640 mm	-	85 kg	TNC (m)	-
<a href="#">DF-A0100</a>	UHF Interferometer	100 - 500 MHz	-	Vertical	-	1480 mm	2135 mm	-	< 50 kg	TNC (m)	-
<a href="#">DF-A0214</a>	Compact Adcock DF Antenna	500 - 2000 MHz	-	Vertical	-	86 mm	200 mm	-	< 2 kg	SMA (f)	< 1 W
<a href="#">DF-A0190</a>	Manpack/Mobile Watson Watt DF Antenna	700 - 6000 MHz	-	Vertical	-	80 mm	600 mm	-	< 2 kg	-	< 1 W

Antenna	Product Description	Frequency	Gain	Polarisation	L (mm)	D (mm)	H (mm)	W (mm)	Mass	Connector	Power
<a href="#">DF-A0121</a>	Compact Dual Band Direction Finding Antenna	800 - 6000 MHz	-	Vertical	-	304 mm	720 mm	-	< 12 kg	TNC (f)	-
<a href="#">DF-A0020</a>	DF Antenna	1000 - 3000 MHz	0 dBi	Vertical	-	300 mm	550 mm	-	10 kg	-	-
<a href="#">SPRL-A0027</a>	Cavity Backed Spiral Antenna	1000 - 6000 MHz	3 to 5 dBi	LHCP & RHCP	72 mm	163 mm	-	-	500 g	SMA (f)	10 W CW
<a href="#">DF-A0253</a>	Compact Adcock DF Antenna	2000 - 6000 MHz	-	Vertical	-	83 mm	388 mm	-	< 2 kg	SMA (f)	< 1 W
<a href="#">DF-A0141</a>	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
<a href="#">DF-A0052</a>	High-Speed DF Antenna Commutating Switch	1 - 3600 MHz	10 to 15 dB	-	317 mm	-	80 mm	168 mm	< 4 kg	SMA (f)	-
<a href="#">DF-A0056</a>	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)	-
<a href="#">DF-A0058</a>	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)	-
<a href="#">DF-A0127</a>	5-Channel Band Switch with Omni Amplifiers	1 - 3600 MHz	8 to 19 dB	-	317 mm	-	80 mm	168 mm	< 4 kg	SMA (f)	-
<a href="#">DF-A0128</a>	5-Channel Band Switch with Omni Amplifiers	1 - 3600 MHz	8 to 19 dB	-	317 mm	-	80 mm	168 mm	< 4 kg	SMA (f)	-
<a href="#">DF-A0054</a>	High-Speed DF Antenna Band Switch	1 - 6000 MHz	8 to 9 dB	-	317 mm	-	80 mm	168 mm	3.2 kg	SMA (f)	-
<a href="#">DF-A0063</a>	High-Speed DF Antenna Commutating Switch	1 - 6000 MHz	9 to 15 dB	-	317 mm	-	80 mm	168 mm	< 4 kg	SMA (f)	-
<a href="#">DF-A0135</a>	High-Speed DF Antenna Commutating Switch	1 - 6000 MHz	9 to 15 dB	-	317 mm	-	80 mm	168 mm	< 4 kg	SMA (f)	-
<a href="#">DF-A0239</a>	High-Speed DF Antenna Commutating Switch	1 - 6000 MHz	-	-	317 mm	-	40 mm	170 mm	< 1.5 kg	SMA (f)	-
<a href="#">DF-A0064</a>	High-Speed DF Antenna Band Switch	20 - 6000 MHz	13 to 18 dB	-	317 mm	-	80 mm	168 mm	< 4 kg	SMA (f)	-
<a href="#">DF-A0137</a>	High-Speed DF Antenna Band Switch	20 - 8000 MHz	13 to 23 dB	-	353 mm	-	57 mm	168 mm	4 kg	SMA (f)	-
<a href="#">DF-A0086</a>	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
<a href="#">DF-A0057</a>	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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