HR Smith
Group of Companies

ANTENNA OUTLINE DATA - PRODUCT GUIDE

This Product Guide has been compiled to provide outline data for our comprehensive range of airborne antennas together with associated devices used in the processing of RF signals. The H. R. Smith Group will undertake to design, or develop, any antenna system device, for example, a splitter diplexer, or switching unit used in an antenna circuit in addition to the signal radiator.

The antennas and associated components cover a wide range of frequency bands and are suitable for all types and categories of aircraft, both military and commercial. The design, development and production of the H.R. Smith product range is related to applying the latest technologies and skills. In the case of airborne antennas, particular attention is paid to essential aerodynamic and electrical parameters. A range of advanced composite thermoplastic antenna shells is used to meet the stringent environment of high speed, high manoeuvrability aircraft.

NOTE: Since this Guide is continually up-dated with new product developments which reflect the latest technologies you are requested to refer to the Addendum for details of these important additions.

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Antenna Outline Data - Product Guide

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NOTE:With the constant development of new antennas and systems it is impossible to keep this Product Guide totally up to date. For the latest design information refer to the Addendum or contact the Company directly.

1. Airborne Antennas

HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10-101	UHF annular slot	225-400	25:1	V	N	11	5	Grey
10-102-1	VHF whip	118-136	3:1	V	Flylead	0.30	0.13	White
10-102-2A	VHF whip	118-136	25:1	V	T.N.C.	0.30	0.13	White
10-102-2B	VHF whip	121.5	2.5:1	V	T.N.C.	0.30	0.13	White
10-102-2C	VHF whip	1S6.5	2.5:1	V	T.N.C.	0.30	0.13	White
10-102-2D	VHF whip	1S8.8	2.5:1 ±10%	V	T.N.C.	0.30	0.13	White
10-102-2E	VHF whip (Phase matched)	121 s	2.3:1	V	T.N.C.	0.30	0.13	White
10-102-2F	VHF whip	1S6-1S8	2.5:1	V	T.N.C.	0.30	0.13	White
10-102-2G	VHF whip	83	2.5:1	V	T.N.C.	0.30	0.13	White
10-102-2H	VHF whip	100	2.S:1	V	T.N.C.	0.30	0.13	White
10-102-2J	VHF whip	160-164	2.S:1	V	T.N.C.	0.30	0.13	White
10-102-2K	VHF whip	148-174	2.S:1	V	T.N.C.	0.30	0.13	White
10-102-2L	VHF whip	173-3	2.S:1	V	T.N.C.	0.30	0.13	White
10-102-2M	VHF whip	86	2.5:1	V	T.N.C.	0.30	0.13	White
10-102-2N	VHF whip	106-107	2.5:1	V	T.N.C.	0.30	0.13	White
10-102-3A	VHF whip	118-136	2.5:1	V	8.N.C.	0.30	0.13	White
10-102-3B	VHF whip	121 s	2.S:1	V	B.N.C.	0.30	0.13	White
10-102-3C	VHF whip	1S6·S	25:1	V	B.N.C.	0.30	0.13	White
10-102-3D	VHF whip	158·8	2.5:1	V	8.N.C.	0.30	0.13	White
10-102-3E	VHF whip (Phased matched ± 5˚)	121 S	2.3:1 ±10%	V	8.N.C.	0.30	0.13	White
10-102-3F	VHF whip	156-1S8	2.5:1	V	8.N.C.	0.30	0.13	White
10-102-3G	VHF whip	83	2.5:1	V	B.N.C.	0.30	0.13	White
10-102-3GX	VHF whip	75-80	2.5:1	V	B.N.C.	0.30	0.13	Whtie
10-102-3GX.1	VHF whip	76-86	3:1	V	B.N.C.	0.30	0.13	Whtie
10-102-3H	VHF whip	100	2.5:1	V	B.N.C	0.30	0.13	White
10-102-3J	VHF whip	160-164	2.5:1	V	B.N.C.	0.30	0.13	Whtie
10-102-3K	VHF whip	148-174	2.5:1	V	B.N.C	0.30	0.13	White
10-102-3L	VHF whip	173-3	2.5:1	V	B.N.C.	0.30	0.13	White
10-102-3M	VHF whip	86	2.5:1	V	8.N.C.	0.30	0.13	White
10-102-3N	VHF whip	106-107	2.5:1	V	B.N.C	0.30	0.13	White
10-102-3P	VHF whip	1S6-158	2.5:1	V	B.N.C.	0.30	0.13	Grey
10-102-3R	VHF wh1p (no capacitor)	190	2.5:1	V	B.N.C	0.30	0.13	White
10-102-35	VHF whip	12S	<2.5:1	V	B.N.C	0.30	0.13	White
10-102-3T	VHF whip	82	<25:1	V	B.N.C	0.30	0.13	White
10-102-3U	VHF whip	16S	2.5:1	V	B.N.C	0.30	0.13	White
10-102-3V	VHF whip	74.2	<2:1	V	B.N.C.	0.30	0.13	White
10-102-3W	VHF whip	87.2	<2:1	V	B.N.C	0.30	0.13	White
10-102-4A	UHF whip	243	2:1	V	B.N.C	0.30	0.13	White
10-102-4B	UHF whip (with lockwasher)	243	2:1	V	B.N.C	0.30	0.13	White
10-102-4C	UHF whip (no capacitor)	413.6	2:1	V	B.N.C.	0.30	0.13	Whtie
10-102-4D	UHF whip (no capacitor)	381	2.5:1	V	B.N.C.	0.30	0.13	White

1. Airborne Antennas

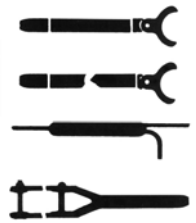
HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10-102-4E	UHF whip	23S	2:1	V	B.N.C.	0.30	0.13	White
10-102-4F	UHF whip (phase matched ± so)	243	2:1	V	B.N.C	0.30	0.13	White
10-102-4G	UHF whip (phase matched ± so)	410-S00	2.5:1	V	B.N.C.	0.30	0.13	White
10-102-4H	UHF whip	225	21	V	B.N.C.	0.30	0.13	White
10-102-4J	UHF whip	400-450	2.5:1	V	B.N.C.	0.30	0.13	Whtie
10-102-4K	UHF whip	39S-410	2.5:1	V	B.N.C.	0.30	0.13	White
10-102-SA	VHF whip (no capacitor)	121S	2.5:1	V	B.N.C.	0.30	0.13	White
10-102-6	VHF whip	118-136	2.5:1	V	T.N.C.	0.30	0.13	White
10-102-11	VHF whip	136-17S	2.5:1	V	TNC.	0.30	0.13	Whtie
10-102-12	VHF whip	118-1S6	2.5:1	V	T.N.C.	0.30	0.13	White
10-102-13	VHF whip	100-1SO	2.5:1	V	BN.C. female	0.5	0.23	Whtie
10-102-14	UHF homing	225-400	2.5:1	V	8N.C. female	0.22	0.1	Nato Green
10-102-18	VHF whip	148-174	2.5:1	V	N	0.30	0.13	White
10-102-19	ELT antenna	121 S/243/406	2.5:1	V	8.N.c.female	0.30	0.13	Whtie
10-102-30	VHF whip	100-1SO	2.5:1	V	B.N.c.female	0.6	03	White

10-103-2	VHF blade narrow base	115-14S comms / 108-118 nav			B.N.C.	1.0	0.45	White
10-103-2A	VHF blade (with wire anchor bush) narrow base	118-14S comms / 108-118 nav			B.N.C.	1.0	0.45	White
10-103-3	VHF blade wide base	115-145 comms / 108-118 nav			B.N.C.	1.0	0.45	Whtie
10-103-3A	VHF blade (with wire anchor bush) wide base	115-14S comms / 108-118nav			B.N.C.	1.0	0.45	Whtie

10·104·1	UHF low drag blade telemetry	380-500	2:1	V	N female	0.9	0.41	White
10-104-2	UHFcomms	225-400	2:1	V	N socket	1.04	0.47	White
10-104-3	UHFcomms	225-400	2:1	V	C socket	1.04	0.47	White
10-104-4	UHFcomms	225-400	2:1	V	Flylead	1.04	0.47	White
10-104-5	UHFcomms	225-400	2:1	V	Sealed 600	1.04	0.47	White
10-104-6	UHFcomms	225-400	2:1	V	N socket	1.04	0.47	Matt Black
10-104-8	UHF low drag blade	650-800	1.5:1	V	N socket	1.0	0.45	Black
101·04-10X	Colinear array	960-1220	2:1	V	N socket	1.04	0.47	Matt Black
10-104-11	Telemetry	220 5	2:1	V	N socket	1.04	0.47	Matt Black

10-105-1	VHF low drag blade comms	118-156	2:1	V	B.N.C. socket	3.25	1.47	White
10-105-2	VHF low drag blade comms	118-156	2:1	V	N socket	3.25	1.47	White
10-105-3	VHF low drag blade comms	118-156	2:1	V	Flylead	3.25	1.47	White
10-105-50	Dummy antenna							White Primer
10-105-60	Dummy antenna (no mtg. holes)							White Primer
10-105-7	Multi-Bandantenna Plus CID Band	30-400 / 960-1250	2.5:1 /2 .0:1 / 1.5:1	V	N/T.N.C	3.6	1.65	White

1. Airborne Antennas



	HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
	10-105-8	VHF/UHF antenna	118-174 / 225-400	2.0:1	V	T.N.C. female	3.3	1.5	Matt Black
	10-105-11	Multi-Bandantenna	30-400	2.5:1/2.0:1	V	B.N.CJN	3.3	1.5	White
	10-105-12	Multi-Bandantenna	30·156	2.5:1/2.0:1	V	BNC/TNCIN	3.3	1.5	colour on request
	10-105-21	1.6-30 MHz Receive Only HF antenna	1.6-30	1.5:1	V	N	3.3	1.5	colour on request
	10-105-23	Multi-Bandantenna	30-400 / 960-1250	2.5:1 VHF / 2.251 UHF / 2.0:1 L Band	V	N / TNC	4.18	1.9	Matt Black
	10-105-112	Low Profile VHF antenna	118-156	2:1	V	BN. .C.	2.25	1.02	White
	10-105-115	Low Profile VHF antenna	118-156	2:1	V	BN. .C.	2.5	1.13	White
	10-106-1	Combined UHF/VHF antenna	116-152 / 225-400	2:1		T.N.C.	3.2	1.48	
	10-106-2	Combined UHF/VHF comms	116-152 / 225-400	2:1	V	B.N.C. female / T.N.C. female	3.25	1.48	White
	10-106-5	Combined UHF/VHF	116-152 / 225-400	2.5:1 / 2:1	V	VHF:N / UHF:T.N.C.	4.25	1.93	Matt Deep / Bronze Green
	10-106-6	Combined UHF/VHF	116-152 / 225-400	2.5:1 / 2:1	V	VHF:N / UHF:T.N.C.	4.25	1.93	White
	10-106-7	Combined UHF/VHF	116-152 / 225-400	2.5:1 / 2:1	V	VHF:N / UHF:T.N.C.	4.25	1.93	Matt Black
	10-106-09	Combined UHF-VHF	116-152 / 225-400	2:1	V	TNC / N	3.2	1.5	Colours on request
	10-106-10	Combined UHF/VHF AerialType Ten-106	118-136 / 225-400	2:1	V		4.25		
	10-106-11	Comb1ned UHF/VHF AerialType Ten-106	150-175 / 225-400	2:1	V	4.25			
	10-107-1	HF mast				5/16th UNF	0.60	.27	Black
	10-107-2	HF mast				5/16th UNF	0.60	.27	Black
	10-108-1	Tension Unit 78 lb				0.30	0.14		
	10-108-2	Tension Unit 28 lb				0.10	0.05		
	10·108-3	Tension Unit 100 lb				0.37	0.17		
	10-108-4	Tension Unit 120 lb				0.57	0.26		
	10-109-1	Line insulator				0.075			
	10-109-3	Line connector							
	10-109-SA	Jundion connedor							
	10-109-6(A, B,C, IA, 1B,1C)	Insulator attachment				0.07			

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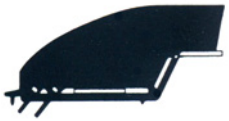
	HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
	10-109-7 (C, CA)	Insulator attachment				10-32 UNF			
	10-109-7CF	HF wire lead-In							
	10-109-70	HF wire lead-in							
	10-109-8 (A, B,C)	Tee connector							
	10-109-9	Tee connector							
	10-109-10								
	10-109-11	Vertical lead-in				1/4" 26UNF			Black
		NOTE: For further information of 10-108 Tension unit series and 10-109 Line insulator/connector series contact the Company direct.							
	10-109-12	Insulator							
	10-112-1	VHF/UHF fin cap comms	116-150 / 225-400	2.51	V	UHF:N plug / VHF:C plug	9.35	4.24	Natural
	10-113-1	VHFcomms	108-140	2.51	V	N socket on lead	3	1.36	White

1. Airborne Antennas

	HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
	10-117-1	HF support mast (double)				1/4" UNF	1.85	0.94	Matt Black
	10-117-2	HF support mast (double) dead end					1.65	0.75	Matt Black
	10-117-3	HF support mast (double)				1/4" UNF	22	1.0	Matt Black
	10-117-4	HF support mast				End load unit	1.47	0.67	Matt Black
	10117-5 5ER	Support mast					2.38	1.08	Matt Black
	10-117-65ER	HF support mast				End load unit			Matt Black
	10-117-7	HF support mast							Matt Black
	10-117-9	HF support mast [double] dead end					1.87	0.85	Matt Black
	10-117-10	HF support mast				End load unit	1.47	0.67	Matt Black
	10-117-11	HF support mast					1.87	0.85	Matt Black

1. Airborne Antennas

	HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
	10-117-12	HF support mast angled feed in				1/4" UNF nut	1.54	0.70	Matt Black
	10-117-13	HF support mast angled feed in					1.54	0.70	Matt Black
	10-117-14 SER	HF support mast intermediate wire clamp							
	10-117-15 SER	HF support mast inc end cap. heavy spring					1.4	0.625	Matt Black
	10-117-16SER	HF support mast,feed in tension untt,std.					1.43	0.65	Matt Black
							1.43	0.65	Matt Black
	10-117-17	HF support mast spring tension					2.3	1.06	Matt Black
	10-117-18	HF wire guide mast					1.87	2.3	Matt Black
	10-117-19	HF support mast, dead end tension unit					2.3	1.20	Matt Black

1. Airborne Antennas

	HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
	10-117-20	HF support mast				End load unit	1.47	0.67	Matt Black
	10-117-21 SER	HF support mast,intermediate wire guide							Matt Black
	10-117-24	Intermediate support mast							Matt Black
	10-117-25 15A	HF wire spring tension end unit					1.43	0.65	Matt Black
	10·117-26 SER	Support mast - dead end (no tension unit)							Matt Black
	10-117-50	Lead-in mast - Fwd					1.06	0.48	Matt Black
	10-117-51	Single to twin wire mast					2.38	1.08	Matt Black
	10-117-52	HF support mast (scheme A)					2.17	0.98	Matt Black

1. Airborne Antennas

	HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
	10-117-53	HF support mast (scheme B)					2.20	1.00	Matt Black
	10-117-54	HF support mast (lead in)					2.29	1.04	Matt Black
	10-118-1	Low profile VHF	118-136	2.5:1	V	B.N.C. socket	1.0	0.45	White
	10-118-1LE	Low profile VHF protection strip fitted	118-136	2.5:1	V	B.N.C. socket	1.0	0.45	White
	10-118-2	Low profile VHF transparent strip	118-136	2.5:1	V	T.NC. socket	1.0	0.45	White
	10-118-2 LE	Low profile VHF black strip & end cap	118-136	2,5:1	V	T.NC. socket	1.0	0.45	White
	10-118-2 LE1	Low profile VHF black strip,end cap & top cover	118-136	2.5:1	V	T.N.C. socket	1.0	0.45	White
	10-118-10	Broad Band VHF antenna	30-88	2.5:1	V	N/TNC/BNC/C	1.0	0.45	Colour on request
	10-118-11		118-152	2.0:1	V		0.77	035	Matt Black
	10-118-12		120-150 / 118-125	2.0:1 / 2.5:1	V		0.77	035	Matt Black
	10-118-13		125-180	2.0:1	V		0.77	035	Matt Black
	10-118-16	VHF antenna	118-140	2:1/1.5:1	V	NfTNC/BNC/C	0.77	035	Colour on request
	10-118-17	Broadband homing antenna	118-250	5:1	V	NfTNC/BNC/C	0.77	035	Colour on request
	10-118-20	VHF Blade	118-136	2:1	V	TNC	0.77	35	Colour on request
	10-118-21	VHF Blade	148-176	2.5:1	V	TNC	077	35	Colour on request
	10-118-25	VHF antenna	68-88	2.5:1	V	TN.C. female	1.0	0.45	Matt Black/White
	10-118-26	VHF Telemetl)l antenna	123-130	1.5:1	V	B.N.C. female	0.75	034	White
	10-118-30	VHF Blade Antenna	108-156	2.5:1	V	BNC/TNC/N/C female	0.77	0.35	Colour on request
	10-118-37	V/UHF Wide Band Antenna	30-400	3.0:1/ 2.0:1	V	N Type female	3.1	1.4	
	10-118-100	VHF Active	30-88	2:1	V	TNC / PT02-12 / I OP	0.77	0.35	Colour on request
	10-122-1	VHF fin cap	116-150 / 30-100	2.5:1 / 2.0/3.0:1	V	C plug on flylead	8.27	3.75	Natural
	10-122-2	Dual-band VHF fin cap (Hawk w1de band)	100-175	[varies]	V		8.27	3.75	Natural
	10-122-3	30-175 MHZ Pin Diode Tuned fin cap antenna	30-175	2.5:1	V		8.27	3.75	
	10-122-4	30-400 MHz Pin Diode Tuned fin cap antenna	30-175 / 225-400	2.5:1 / 2.0:1	V		8.27	3.75	

1. Airborne Antennas

	HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
	10-123	Sonics/UHF aerial assy 10-101-1 [combined with 10-235-1]	162-174	2:1	V	N	11.90	5.4	Grey/White
	10-124-10 (A,B)	HF antenna mast (hi-power) dead end [5/16" UNF bolts]					2.2	1.0	Black
	10-124-11 (A,B)	HF antenna mast (hi-power) dead end [1/4" UNF studs]					2.2	1.0	Black
	10-124-12 (A. B)	HF antenna mast (hi-power) [5/16" UNF bolts]				5/16" UNF	22	1.0	Black
	10-1 24-13 (A, B)	HF antenna mast (hi-power) [1/4" UNF bolts]				5/16" UNF	2.2	1.0	Black
	10-124-14 (A, B)	HF antenna mast [5/16" UNF bolts]				5/16" UNF	2.2	1.0	Black
	10-124-15 (A,B)	HF antenna mast [1/4" UNF bolts] (use 10-124-1B)				5/16" UNF	2 2	1.0	Black
	10-124-16 (A, B)	HF antenna mast [5/16" UNF bolts]				5/16" UNF	2.2	1.0	Black
	10-124-17 (A, B)	HF antenna mast [1/4" UNF studs]				5/16" UNF	2.2	1 .0	Black
	10-124-18 (A,B)	HF antenna mast [1/4" UNF studs]				5/16" UNF	2.2	1.0	Black
	10-125-1	UHF/band	225-400 950-1220	2:1	V	HN	1.5	0.68	White
	10-125-2	UHF/band	225-400 950-1 220	2:1	V	HN	1.5	0.68	Matt Black
	10-126-1	VHF whip	65-66 85-86	2:1	V	B.N.C.socket	.41	0.185	White

1. Airborne Antennas

HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10-128-1	VHF comms	110-170	3:1	V	B.N.C. jack	13	0.60	Matt Black
10-128-2	VHF comms	110-170	3:1	V	Flylead	1.5	0.681	Matt Black

10-129-1	HF antenna mast (hi-power)	0.33 ring term 3.69	1.68	Matt Black				

10-130-1	UHF (hi-power)	225-400	2:1	V	HN	1.5	0.68	White
10-130-2	UHF (hi-power)	225-400	2:1	V	HN	1.5	0.68	Matt Black

10-131-1	UHFNHF blade antenna	100-400	2:1	V	N	5.84	2.65	LIght Brunswick Green

10-133-1	VHF comms 30-400 MHz	30-100 / 100-400	2.5:1	V	N female	5	2.25	Matt Black
10-133-11	Broad Band Passive	20-100	2:1		N	30	14	Colours on request

10-133-12	Broad Band Passive	20-500			N	30	14	Colours on request
10-133-13	Broad Band Passive	100-500			N	30	14	Colours on request
10-133-14	Broad Band Active SOW	20-100			N / PT02-12 / IOP	30	14	Colours on request
10-133-15	Broad Band Active 450W	20-100			N/ PT02-12 / IOP	30	14	Colours on request
10-133-16	Broad Band Passive Antenna	20-100			N Female	15		Matt Black
10-133-17	Broad Band Passive Antenna	20-500			N Female	15		Matt Black
10-133-24	Multiband antenna 27 to 1500 MHz	27-1500	5.0:1		N female	4	1.2	Colours on request
10-133-25	Multiband antenna 100 to 1500 MHz	100-1500	5.0:1		N female	3.2	1.5	Colours on request

1. Airborne Antennas

HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10-136-1	VHF comms 100-400 MHz	110-160 / 100-400	2.0:1 / 2.5:1	V	N female	4	1.81	Matt Black

10-137-1	VHF comms 30-100 MHz	30-100	2:1	V	N female	4	1.81	Matt Black

10-138-1	VHF comms 30-100 MHz	30-100	2.5:1	V	N female + PT02-12-10PN5	5	2.25	Matt Black

10-139-1	Broad band active	30-88 / 108-118 / 118-400	2.5:1 / 3:1 / 2:1	V	T.N.C. female / N female / PT02-12-10 PN	8.60	3.90	Matt Black
10-139-2	Wide band antenna	30-400		V	T.N.C. female	8.60	3.90	Colours on request
10-139-11	Switched Tuned VHF/UHF	100-400	2.5:1-2.0:1	V	T.N.C.	1.5		

10-140-1	VHF/UHF flying leads	30-88 / 108-400	2.5:1 / 2.0:1	V	T.N.C. jack / T.N.C. plug	4.5	2.04	Matt Black
10-140-2	VHF/UHF	100-118 / 118-400	5:1 / 2:1	V	N socket	4.6	2.1	Matt Black
10-140-4	MultiBand	30-118 / 118-400	2.5:1 / 2.0:1	V	N	4.6	2.1	Colours on request
10-140-5	MultiBand	100-108 / 108-156	5.0:1 / 2.0:1	V	N	4.6	2.1	Colours on request
10-140-6	Wide Band Pin Diode Tuned antenna 30-88 MHz	30-88	2.5:1	V	N female	4.6	2.1	Colours on request
10-140-7	MultiBand antenna VHF/UHF	118-174 / 225-400	2:1	V	N/T.N.C.	4.6	2.1	Matt Black
10-140-8	MultiBand antenna	100-500	2.5:1	V	N female	7.0	3.2	Colours on request
10-140-9	MultiBand antenna	20-500	3:1	V	N female	2.1	4.6	Matt Black
10-140-20	Wideband Pin Diode Tuned antenna	20-100	2.5:1	V	N female	2.1	4.6	Colours on request
10-140-21	Wideband Passive antenna	100-500	2.5:1	V	N female	2.1	4.6	Colours on request

10-140-22	Wtdeband Pni Diode Tune antenna	20-500	2.5:1	V	N female	2.1	4.6	Colours on request
10-140-23	Receive only HF antenna	20-500	2.0:1		N female			Colours on request
10-140-24	UHF antenna	225-400	2.0:1	V	N female	4.6	2.1	Colours on request
10-140-25	Low Profile Multiband antenna	108-175 / 225-420	<2.25:1 / <2.0:1	V	TNC female	2.5	1.13	Colours on request
10-140-41	VHF/FM/AM antenna	30-88 / 118-400	2.5:1 / 2.0:1	V		4.4	2.0	Colours on request

1. Airborne Antennas

HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10-141-1	Fin cap	30-100 / 100-400	2.5:1 / 2.0:1	V	N jack / T.N.C. male	4.4	2.02	Matt Black

10-141-4	VHF/UHF Fin cap	108-175 225-400	107-116 3.5:1 116-118 2.5:1 118-175 2.5:1 225-400 2.0:1	V	N socket	2.2	1.0	Matt Black

10-141-5	Leading Edge VHF Slot antenna	108-175	5.0:1	V	T.N.C. Socket	4.95	2.25	Matt Black

10-141-6	Capacity Plate VHF antenna	108-175	3.5:1	V	T.N.C. male	1.60	0.7	Matt Black

10-141-8	Wide Band VHF/UHF fin cap antenna for SiAi Marchetti S211 Aircraft	108-156VHF 225-400 UHF	2.5:1 2.0:1		N female			Matt Black

10-141-9	VHF/ELT antenna for MB-339C	108-151 / 121.5/243	2.5:1	V	N female / B.N.C. female	2.0	0.9	Matt Black

10-143-1	Combined VHF/UHF	108-174 / 225-400			N socket	4.4	2.0	

10-145-1	V TAC V/UHF comms				V TAC / T.N.C. (female) / V/UHF / N (female)	7.3	3.28	Matt Black

10-149-01	UHF/L band antenna	225-400 / 950-1220	2:1	V	HN	1.06	0.48	Matt Black

1. Airborne Antennas

HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10-150-01	Multi band Antenna	30-88 108-174 225-400	2.5:1 2.0:1	V	T.N.C. (female)	2.2	1.0	Matt Black
10-150-03	Multi band Antenna - Active + Passive	30-88 (A) 108-174 (A) 225-400 (P)	2.5:1 UHF 2.0:1 VHF	V	T.N.C (female)	2.2	1.0	Colours on request
10-150-04	Multi band Antenna - Active + Passive + IFF	30-88 (A) 108-174 (A) 225-400 (P) 1030-1090 (IFF)	2.5:1 UHF 2.0:1 VHF	V	T.N.C. (female) N Type	2.2	1.0	Colours on request
10-150-05	Multi Band Antenna	30-88 108-174 225-400	2.0:1 2.5:1	V	T.N.C. (female)	2.2	1.0	Matt Black
10-150-07	Multi Band Antenna	30-88 108-174	2.0:1	V	T.N.C. (female)	2.2	1.0	Colours on request
10-150-08	Multi Band Antenna	30-88 (Tuned) 108-174 (P) 225-400 (P) 1030-1090 (P)	2.5:1 2.5:1 2:1 1.5:1	V	T.N.C. & Screwed C	2.2	1.0	Colours on request

10-152-02	UHF L Band Blade Antenna	225-400 960-1200 1030-1090	2.0:1 1.5:1 1.3:1	V	T.N.C. (male) N male N female	1.54	0.7	Matt Black
10-152-03	UHF L Band Blade Antenna	225-400 960-1220 1030-1090	2 0:1 1.5:1 1.3:1	V	UH.F	1.43	0.65	Matt Black
10-152-04	UHF L Band Blade Antenna	225-400 960-1220 1030-1090	2.0 1 1.5 1 1.31	V	H.N. (female)	1.43	0.65	Matt Black
10-152-13	Blade Antenna	118-156 118-156	2 0:1 2.5:1	V V	T.N.C (female) N (female)			Colours on request Colours on request
10-152-14	Combination VHF/UHF Antenna	108-135 225-400	2.51 2.0:1	V	N Type	2.2	1.0	Matt Black Colours on request
10-152-15	Combination VHF/UHF Antenna	108-135 225-400	2.5:1 2.0:1	V	N Type Female	2.2	1.0	Matt Black
10-152-16	V/U/L Band Antenna	108-175 225-400 960-1220	<3.0:1 <2.0:1 <1.5:1	V	N Female N Male	2.2	1.0	Colours on request
10-152-17	VHF/UHF Antenna	108-175 225-400	<2.5:1 <2.0:1	V	N Female	1.43	0.65	Colours on request
10-152-24	VHF/UHF Antenna	30-400	VHF 2.5:1	V	N Female	2.2	1.0	Colours on request

1. Airborne Antennas

HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
			UHF 2.0:1					
10-152-26	V/U/L Band Blade Antenna	108-175	<3.0:1	V	N Female	2.2	1.0	Colours on request
		225-400	<2.0:1					
		960-1220	<1.5:1		T.N.C. Female			
10-152-28	UHF L Band Antenna	225-400	<2.5:1	V	N Female	2.2	1.0	Colours on request
		960-1220	<1.5:1		N Male			
10-155-01	low Profile Broadband Blade Antenna	30-400	30-225 2.51	V	B.N.C./T.N.C.	2.0	0.9	Colours on request
			225-400 2.0:1		N/C (female)			
10-155-2	Broad Band Antenna	100-400	2.5:1	V	T.N.C.(female)	2.0	0.9	Matt Black
			2.0:1					
10-201-1	VOR Suppressed	108-116	3:1	H	C socket	1.08	0.49	Grey
10-202-1	VHF N.A.V.	108-118	3:1	H	Fly lead	0.41	0.20	White
10-202-3	VHF N.A.V.		3:1		Fly lead	0.41	0.20	White
10-203-1	L Band	950-1250	1000-1100 1.3:1	V	N socket	0.31	0.14	White
			950-1250 1.7:1					
10-203-2	L Band	950-1250	1000-1100 1.3:1	V	T.N.C. socket	0.31	0.14	White
			950-1250 1.7:1					
10-203-3	L Band	950-1250	1000-1100 1.3:1	V	C socket	0.31	0.14	White
			950-1250 1.7:1					
10-203-4	L Band	950-1250	1000-1100 1.3:1	V	H.N.socket	0.31	0.14	White
			950-1250 1.7:1					
10-203-7	L Band	950-1250	1000-1100 1.3:1	V	N socket	0.31	0.14	Black
			950-1250 1.7:1					
10-203-8A	L Band	950-1250	1000-1100 1.3:1	V	fly lead	0.31	0.14	White
			950-1250 1.7:1					
10-203-8B	L Band	950.1250	1000-1100 1.3:1	V	Fly lead & N jack	0.42	0.19	White
			950-1250 1.7:1					
10-203-9	L Band	950-1250	1000-1100 1.3:1	V	Fly lead & c socket	0.42	0.19	White
			950-1250 1.7:1					
10-203-10	S band	2.36-2.38GHz	1.2:1	V	N	0.31	0.14	White
10-203-18	L Band Antenna	950-1250	1.3:1	V	HN socket	0.31	0.14	White

1. Airborne Antennas

HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10.204-1	Dualgilde slope (base mtg.)	328-336	2:1	H	Cx2	0.4	0.2	White
10-204-2	Dualglide slope (thru mtg)	328-336	2:1	H	BNC x2	0.34	0.15	White
10-204-3	Dualglide slope (base mtg)	328-336	2:1	H	Cx2	0.4	0.2	Black

10-205-1	Single glide Slope (base mtg)	328-336	2:1	H	N	0.38	0.2	Gloss White
10.205-2	Single glide slope (thru mtg)	328-336	2:1	H	BNC socket	0.30	0.15	Gloss White
10-205-3	Single glide slope (base mtg)	328-336	2:1	H	C	0.38	0.2	Matt Black

10-206-2	NAV balanced loop	108-118	3.0:1	H	TNC	0.9	0.4	Colours on request
10-206-3	VOR. LOC. Balanced looprequest	108-118	3.0:1	H	TNC	1.0	0.5	Colours on request
10-206-4	VOR.LOC. Balanced loop Antenna	108-122	5:1	H	B.N.C.(female)	0.84	0.38	Colours on request

10-208-1	External marker (base mtg)	75	3:1	H	C	0.60	0.3	White
10-208-1F	External marker (flange mtg)	75	3:1	H	C	0.60	0.3	White
10-208-2	External marker (base mtg)	75	3:1	H	BNC	0.60	0.3	White
10-208-2LE	External marker (base mtg & protection strip	75	3:1	H	BNC	0.60	0.3	White
10-208-2F	External marker (flange mtg)	75	3:1	H	BNC	0.60	0.3	White
1Q-208-2F LE	External marker (flange mtg & protection strip)	75	3:1	H	BNC	0.60	0.3	White

10.208-3	Externalmarker (base mtg)	75	3:1	H	C	0.60	0.3	Black
1Q-208-3F	Externalmarker (flange mtg)	75	3:1	H	C	0.60	0.3	Black
1Q-208-4F	Externalmarker Antenna	75	2:1	H	TNC (female)	0.55	0.25	Matt Black

10-210-1	Miniature glide slope	328-336	2:1	H	L1403/CS	0.13	0.059	Cad plate

10-213-1	ADF sense mast				C	0.65	0.3	White
10-213-2	ADF sense mast				2BA stud	0.65	0.3	White
10-213-3	ADF sense mast				(Dead end)	0.65	0.3	White
10-213-4	Support mast				(Dead end)	0.50	0.23	White
10-213-5A	Support mast				(Dead end)	0.77	0.35	White
10-213-5B	Support mast				(Dead end)	0.77	0.35	White
10-213-5C	Support mast				(Dead end)	0.77	0.35	White
10-213-6	Stand Off Mast with Angled Connector				(Dead end)	1.0	.45	Black Matt / White Gloss

10-214-1A	Marker blade	75	2.0:1	H	Microdot skt	0.23	0.105	Gloss White
10-214-2A	Marker blade	75	2.0:1	H	Min.flylead	0.23	0.105	Gloss White
10-214-3A	Marker blade	75	2.0:1	H	BNC socket	023	0.105	Gloss white
10-214-3B	Marker blade	75	2.0:1	H	TNC socket	0.23	0.105	Gloss White
10-214-4	Marker blade	75	2.0:1	H	N socket	0.35	0.16	Gloss White

1. Airborne Antennas

HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10-215-1	Lightweight IFF with test probe	950-1250	1.7:1	V	BNC test probe TNC socket	0.15	0.07	Black
10-215-3	Lightweight IFF	950-1250	1.7:1	V	TNC socket	0.15	0.06	Black

10-216-1-4	Mast for 1/2″ rod (feeder) 4″				10-32 UNF	0.3	.14	White
10-216-1-6	Mast for 1/2″ rod (feeder) 6″				10-32 UNF	0.49	.20	White
10-216-1-8	Mast for 1/2″ rod (feeder) 8″				10-32 UNF	0.66	.30	White
10-216-1-10	Mast for 1/2″				10-32 UNF	0.83	.40	White
10-216-1-4	Mast for 1/2″ rod (feeder) 4″				10-32 UNF	0.3	.14	White
10-216-1-6	Mast for 1/2″ rod (feeder) 6″				10-32 UNF	0.49	.20	White
10-216-1-8	Mast for 1/2″ rod (feeder) 8″				10-32 UNF	0.66	.30	White
10-216-1-10	Mast for 1/2″rod (feeder) 10″				10-32 UNF	0.83	.40	White
10-216-2-4	Mast for 1/2″ rod (dead end) 4″					0.24	.10	White
10-216-2-6	Mast for 1/2″ rod (dead end) 6″					0.43	.20	White
10-216-2-8	Mast for 1/2″ rod (dead end) 8″					0.60	.28	White
10-215-2-10	Mast for 1/2″ rod (dead end) 10″					0.77	.35	White
10-216-4	VOR orbit array	108-118	5:1	H	BNC	2.77	1.25	White
10-216-5	ADF sense mod for BAC 111				10-32 UNF			
10-216-6	ADF sense mast (8') for 10-216-5		2:1 with tuning unit	H				
10-216-7	VHF/FM radiator	30-75				1.00	.45	Matt Black
10-216-10	ADF sense array			H		1.89		

10-216-12-4	Wire support mast 4″					0.24	0.11	
10-216-12-6	Mast for wire (dead end) 6″					0.43	0.19	
10-216-12-6	Mast for wire (dead end) 8″					0.60	0.27	
10-216-12-10	Mast for wire (dead end) 10″					0.77	0.35	
10-216-13-4	Mast for through wire 4″					0.24	0.11	
10-216-13-6	Mast for through wire 6″					0.43	0.19	
10-216-13-8	Mast for through wire 8″					0.60	0.27	
10-216-13-10	Mast for through wire 10″					0.77	0.35	
10-216-14-4	Mast for wire (intermediate) 4″							
10-216-14-6	Mast for wire (intermediate) 6″							
10-216-14-8	Mast for wire (intermediate) 8″							
10-216-14-10	Mast for wire (intermediate) 10″					1.0	0.45	
10-216-15-4	Mast for wire (dead end,tension) 4″							
10-216-15-6	Mast for wire (dead end,tension) 6″							
10-216-15-8	Mast for wire (dead end,tension) 8″							
10-216-15-10	Mast for wire (dead end,tension) 10″					1.1	0.50	
10-216-16-4	Mast for wire (live base tension) 4″							
10-216-16-6	Mast for wire (live base tension) 6″							
10-216-16-8	Mast for wire (live base tension) 8″							
10-216-16-10	Mast for wire (live base tension) 4″					1.1	0.50	
10-216-17	Mast assy				10-32 UNF	1.44	0.607	Matt black & S/S
10-216-18	Calibration marker array				BNC			

1. Airborne Antennas

HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10-216-19-4	Mast for wire (live support) 4″				10-32 UNF	0.7	0.32	Matt black
10-216-19-6	Mast for wire (live support) 6″				10-32 UNF			Matt black
10-216-19-8	Mast for wire (live support) 8″				10-32 UNF			Matt black
10-216-19-10	Mast for wire (live support) 10″				10-32 UNF	1.1	0.50	Matt black
10-216-21-4	Mast for wire (live support tension) 10″				10-32 UNF			Matt black
10-216-21-6	Mast for wire (live support tension) 6″				10-32 UNF			Matt black
10-216-21-8	Mast for wire (live support tension) 8″				10-32 UNF			Matt black
10-216-21-10	Mast for wire (live support, tension) 10″				10-32 UNF			Matt black
10-216-23	Lead in mast M.B.B.blister				10-32 UNF	0.40		Matt black
10-216-24-4	Mast for wire (dead support tension) 4″							Matt black
10-216-24-6	Mast for wire (dead support tension) 6″							Matt black
10-216-24-8	Mast for wire (dead support tension) 8″							Matt black
10-216-24-10	Mast for wire (dead support tension) 10″					1.10	0.50	Matt black
10-216-24174	HF support Mast					1.10	0.50	Matt black
10-216-27	Array for Fokker F27				10-32 UNF			
10-216-28	Array for Fokker F28				10-32 UNF			Masts:Whtie
10-216-29	VHF/FM radiator				N socket			Black
10-216-33 SER	Lead in Mast for 1/2″ (12.7mm) rod				BNC	0.66	0.3	Colour on request
10-216-64-4	High temp version of 10-216-14-4							″
10-216-64-6	High temp version of 10-216-14-6							″
10-216-64-8	High temp version of 10-216-14-8							″
10-216-64-10	High temp version of 10-216-14-10					0.8	0.40	″
10-216-66-4	High temp version of 10-216-16-4							
10-216-66-6	High temp version of 10-216-16-6							
10-216-66-8	High temp version of 10-216-16-48							
10-216-66-10	High temp version of 10-216-16-10					1.1	0.50	
10-216-71-4	High temp version of 10-216-21-4				10-32 UNF nut			Matt black
10-216-71-6	High temp version of 10-216-21-6				10-32 UNF nut			Matt black

10-216-71-8	High temp version of 10-216-21-8				10-32 UNF nut			Matt black
10-216-71-10	High temp version of 10-216-21-10				103-2 UNF nut			Matt black
10.216-101& 151	Lead in Mast for 1/2″ (12.7mm) rod							Colours on request
10.216-102 & 152	Dead End Mast for 1/2″ (12.7mm) rod							Colours on request
10-216-103& 153	Support with live base mast for 0.50 (12.7) rod							Colours on request
10-216-104 &154	Slide through support mast for (12.7mm) rod							Colours on request

10-219-1	Radio altimeter-Fiylead	4250-4350	2:1	H	TNC plug	0.34	0.15	Matt black
10-219-2	Radio altimeter-Fiylead	4250-4350	2:1	H	TNC jack	0.34	0.15	Matt black
10-219-3	Radio altimeter antenna	4200-4400	2:1	Linear	TNC female	0.26	0.12	White
10-219-10	Radio altimeter-Fiylead	4200-4400	1.5:1		TNC jack			
10-219-11	Radio altimeter	4200-4400	1.5:1		TNC jack			
10-219-12	Radio altimeter antenna	4.2 to 4.4 GHz	1.5:1	Linear	BNC/TNC	0.2	0.09	Matt black
10-219-14	5.0 to 5.5 GHz antenna	5.0 to 5.5 GHz	1.5:1	Linear	TNC	0.2	0.9	Matt black

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HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10-220-2	UHF Homing	238-248	2:1	V	N jack	0.7	0.37	White
10-220-4	UHF Antenna	225-400	2.5:1	V	TNC female	0.35	0.77	White

10-222-1	High speed L band	950-1220	1.15:1 / 1020-1100 1.5:1 / 950-1220	V	Ant: N / Probe: BNC	0.25	0.12	White
10-222-2	High speed L band	950-1220	1.15:1 / 1020-1100 1.5:1 / 950-1220	V	Ant: N / Probe: BNC	0.25	0.12	Matt black
10-222-3	High speed L band	950-1220	1.15:1 / 1020-1100 1.5:1 / 950-1220	V	Ant:C / Probe: BNC	0.25	0.12	Matt black
10-222-4	High speed L band	950-1220	1.15:1 / 1020-1100 1.5:1 / 950-1220	V	Ant: C / Probe: BNC	0.25	0.12	Matt black
10-222-5	High speed L band	950-1220	1.15:1 / 1020-1100 1.5:1 / 950-1220	V	Ant: C / Probe: BNC	0.53	0.25	Matt black
10-222-6	High speed L band	950-1220	1.15:1 / 1020-1100 1.5:1 / 950-1220	V	Ant: C / Probe: BNC	0.53	0.25	Matt black
10-222-6	High speed L band	950-1220	1.15:1 / 1020-1100 1.5:1 / 950-1220	V	Ant: C / Probe: BNC	0.53	0.25	Matt black
10-222-7	High speed L band	950-1220	1.15:1 / 1020-1100 1.5:1 / 950-1220	V	C	0.25	0.12	White
10-222-8	High speed L band	950-1220	1.15:1 / 1020-1100 1.5:1 / 950-1220	V	Ant: C / Probe: BNC	0.25	0.12	Matt black
10-222-9	High speed L band	950-1220	1.15:1 / 1020-1100 1.5:1 / 950-1220	V	Ant: C / Probe: BNC	0.25	0.12	White
10-222-10	High speed L band	950-1220	1.15:1 / 1020-1100 1.5:1 / 950-1220	V	C	0.25	0.12	Matt black
10-222-11	High speed L band	1350-1650	1.15:1 / 1020-1100 1.5:1 / 950-1220	V	N	0.25	0.12	Matt black
10-222-13	High speed L band	950-1220	1.15:1 / 1020-1100 1.5:1 / 950-1220	V	TNC (elbow)	0.25	0.12	Matt black
10-222-14	High speed L band	950-1220	1.15:1 / 1020-1100 1.5:1 / 1220	V	HN	0.25	0.12	Gloss White
10-222-15	High speed L band	950-1220	1.15:1 / 1020-1100 1.5:1 / 950-1220	V	HN	0.25	0.12	Gloss White
10-222-16	High speed L band	950-1220	1.15:1 / 1020-1100 1.5:1 / 950-1220	V	HN	0.5	0.23	White
10-222-17	High speed L band	950-1220	1.15:1 / 1020-1100 1.5:1 / 950-1220	V	HN	0.25	0.12	Black

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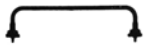

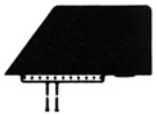

HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10-222-18	High speed L band	950-1220	1.15:1 / 1020-1100 1.5:1 / 950-1220	V	BNC	0.5	0.23	Black
10-222-19	High speed L band	950-1220	1.5:1 / 950-1220 1.15:1 / 1020-1100	V	N (female)	0.25	0.12	Matt Black
10-223-2	VHF navigation	108-118	5:1 max	H	Balun	0.72	0.3	White
10-223-3	Glide slope	328-336	3:1 max	H	Balun	0.63	0.28	White
10-223-4	VHF navigation	108-118	5:1 max	H	Balun	1.0	0.44	Matt Black
10-225-1	VHF/FM homer	30-76	1.85:1	V	BNC (female)	2.10	0.95	Matt Black
10-225-3	VHF loop antenna	30-76	2.5:1	V	BNC (female)	1.3	0.6	Matt Black
10-228-1	ILS localiser/glide slope starb'd	108-112 328-336	5:1 2:1	H	ILS:Flylead & TNC plug Guide: Flylead & TNC jack	6.9	3.1	White
10-228-2	ILS localiser/glide slope port	108-112	5:1 2:1	H	ILS:Flylead & TNC plug Guide: Flylead & TNC jack	6.9	3.1	White
10-228-5	VOR/ILS/glide slope	100-118 328-336	5:1 3:1	H	TNC female	6.9	3.1	
10-229-1	ILS localiser notch	108-112	5:1	H	TNC socket	0.22	0.10	
10-229-3	ILS localiser notch	108-112	5:1	H	TNC socket	0.22	0.10	
10-230-1	Glide slope notch	328-336	5:1	H	TNC socket	0.15	0.07	
10-230-3	Glide slope notch	328-336	5:1	H	TNC socket	0.15	0.07	
10-231-1	VHF Homer	119-124	2.5:1	V	BNC	0.88	0.40	Gloss White
10-231-2	VHF Homer	119-124	2.5:1	V	N	0.88	0.40	Gloss White
10-232-1	UHF Homer	214-236	2:1	V	N female	1.25	0.57	Matt Black
10-233-1	Radio altimeter	4.2-4.4 GHz	1.3:1	Linear	TNC	0.63	0.28	Light Grey
10-233-2	Radio altimeter	4.2-4.4 GHz	1.3:1	Linear	Flylead & TNC jack	0.63	0.28	Light Grey
10-233-3	Radio altimeter	4.2-4.4GHz	1.3:1	Linear	TNC 90°			Light Grey
10-233-4	Radio altimeter	4.25-4.4 GHz	1.3:1	Linear	Flylead 8° & TNCjack	1.20	0.54	Light Grey
10-233-5	Radio altimeter	4.2-4.4 GHz	1.3:1	Linear	Flylead & TNC jack	0.63	0.28	Light Grey
10-233-6	Radio altimeter	4.25-4.4 GHz	1.3:1	Linear	Flylead & TNC jack	1.20	0.54	Light Grey
10-233-7	Radio altimeter	4.25-4.4GHz	1.3:1	Linear	Flylead & TNC jack	1.20	0.54	Light Grey
10-233-156	Radio altimeter	4.25-4.4 GHz	1.3:1	Linear	Flylead & TNC jack	1.25	0.57	Light Grey
15-233-8-94	Radio altimeter 94"	4.25-4.4. GHz	1.3:1	Linear	Flylead & TNC jack	1.25	0.57	Light grey

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HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10-233-8-116	Radio altimeter 116″	4.25-4.4 GHz	1.3:1	Linear	Flylead & TNC jack	1.25	0.57	Light Grey
10-233-8-78	Radio atlimeter 78″	4.25 GHz	1.3:1	Linear	Flylead & TNC jack	1.25	0.57	Light Grey
10-233-8-108	Radio atlimeter 108″	4.25-4.4 GHz	1.3:1	Linear	Flylead & TNC jack	1.25	0.57	Light Grey
10-233-8-57	Radio altimeter 57″	4.25-4.4 GHz	1.3:1	Linear	Flylead & TNC jack	1.25	0.57	Light Grey
10-233-8-70	Radio altimeter 70″	4.25-4.4 GHz	1.3:1	Linear	Flylead & TNC jack	1.25	0.57	Light Grey
10-233-9-156	Radio altimeter	4.25-4.4 GHz	1.3:1	Linear	Flylead & TNC jack	1.25	0.57	Light Grey
10-233-10	Radio altimeter	4.25-4.4 GHz	1.3:1	Linear	Flylead & TNC jack	1.25	0.57	Light Grey

10-234-2	High power UHF antenna	225-400	2:1 225-290 1.2:1 290-320	V	HN female	1.5	0.68	Matt Black
10-234-3	Frangible high power UHF antenna	225-400	2:1	Linear V	N female	4.4	2	Matt Black
10-234-4	Receive only UHF antenna	225-400	2:1	Linear V	N female	4.4	2	Matt Black

10-235-1	VHF	162-174	2:1	V	N jack	0.89	0.40	Gloss White

10-236-1	Radio altimeter	4250-4350	1.3:1	Linear	TNC socket	0.83	0.38	Light Grey

10-237-1	VOR/ILS localiser & guide	108-118	5:1	H	Glide: TNC	2.62	1.19	Gloss White
	slope with wire attach	328-236	2:1	H	bulkhead jack VOR: BNC bulkhead jack			
10-237-2	VOR/ILS localiser & guide	108-118	5:1	H	Glide:TNC plug	2.69	1.19	Gloss White
	slope with wire attach	328-236	2:1	H	VOR:BNC plug			

10-238-1	VHF/FM homing dipole	30-76	2:1	V	TNC / Feed: TNC	0.68	0.30	Matt Black
10-238-3	VHF homing dipole	30-76	2:1	V	Test: BNC	1.0	0.45	Matt Black
10-238-4	A band UHF dipole pair homing	150-160	2:1	V	TNC	0.7	0.32	Matt Black

10-239-1	VHF/FM dipole, side mtd, port	30-76	2:1	mainly V	TNC female	2.2	1.2	Matt Black
10-239-2	VHF/FM dipole,side mtd,starb'd	30-76	2:1	mainly V	TNC female	22	1.2	Matt Black

10-242-1	VORILOC with Op' for 2 receivers (starb'd)	108-118	5:1	H	2 xTNC	5.51	2.5	White
10-242-2	VORILOC with Op' for 2 receivers (port)	108-118	5:1	H	2 x TNC	5.51	2.5	White

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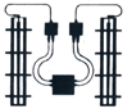

HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10-250-01	VHF navigation	108-118	5:1	H	BNC	Total for 2 5.0	2.27	White
10-250-02	VOR/LOC/glide slope	108-118 / 328-336	3:1		TNC	2.5	1.2	Colours on request
10-250-03	VORILOC/glide slope	108-118 / 328-336	3:1		TNC	2.5	1.2	Colours on request
10-250-04	VOR/glide slope	108-118 / 328-336	3:1		TNC / x2	2.5	1.2	Colours on request
10-250-05	VORILOC/glide slope	108-118 / 328-336	3:1		BNC	2.5	1.2	Colours on request
10-250-06	VORILOC/glide slope High Speed	108-118 / 328-336	3:1		TNC	2.5	1.2	Colours on request
10-250-06A	VORILOC/glide slope High Speed Antenna	108-118 / 328-336	3:1 / 3:1		TNC female	2.2	0.92	Matt Mid Grey
10-250-08	VORILOC/glide slope High Speed Antenna	108-118	3:1		TNC female	1.34 0.61	Matt Black	
10-250-09	VORILOC/glide slope Light weight	108-118 / 328-336	5:1 / 5:1	H	BNC/TNC	1.7	0.77	Matt black
10-251-1	VOR localiser	108-118	5:1	H	TNC socket	1.0	0.45	
10-253-1	VHF comms/navigation	Nav: 108-118 Comms: 118-136	5:1 2:1	H V	BNC socket BNC plug	7.9	3.6	White
10-253-2A	VHF navigation	108-118	5:1	H	12″ Flylead	7.9	3.6	White
10-253-2B	VHF navigation	108-118	5:1	H	15″ Flylead & N plug	7.9	3.6	White
10-253-2C	VHF navigation	108-118	5:1	H	15″ Flylead & BNC jack	7.9	3.6	White
10-254-1	L band satlcomms							
10-256-1	Directional glide slope	328-336	3:1	H	BNC	1.4	0.63	White
10-256-2	Directionalglide slope	328-336	3:1	H	BNC	1.4	0.63	matt black
10-257-1	Suppressed VOR/LOC system (for HS146)	108-118	5:1	H	TNC	3.9	1.77	NIA
10-257-3	Suppressed VOR/LOC system (for CAT III system)	108-118	5:1	H	TNC	3.9		
10-258-1	Active dipole (model A) [MBB homing] distant pair	30-76	2:1		DEM 5W1P with cannon DM53740-5008	0.62	0.28	Matt black
10-258-2	Active dipole (model B) [MBB homing] close pair	110-150	2:1		as above	0.62	0.28	Matt Black
10-258-3	Active dipole	30-410	< 2.5:1		as above	0.47	0.215	Matt Black

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HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10-259-1	Combined IFF/Madge	IFF:960-1215	2.0:1	V	N.female	0.31	0.14	Matt Black
10-259-2	Combined MLS/DME-Pantenna	5.0-5.1 GHz	<1.5:1	V	N female	0.23	0.105	Matt Black
10-259-03 & 4	7 dBi gain antenna	1050-1250	1.5:1	V	TNC female	0.31	0.14	Colours on request
		1600-1700	1.5:1	V	TNC female			
10-259-5	Diredional L band antenna	1.6-1.85 GHz	1.5:1	V	N female	0.31	0.14	Colours on request
10-259-6	OMNI/ L band antenna	1.6-1.85 GHz	1.5:1	V	N female	0.31	0.14	Colours on request
10-259-8	High gain G-band (Diredional) antenna	5.0-5.5 GHz	1.9:1	V	SMA female	0.31	0.14	Matt black
10-259-10	SKE omni	3.3-3.6 GHz	1.5:1	V	TNC female	0.18	0.08	Matt black
10-259-11	SKE omni	2.85-3.15 GHz	1.5:1	V	TNC female	0.18	0.08	Matt black
10-259-14	High gain antenna	2.3-2.4GHz	1.5:1	V	TNC female	0.31	0.14	Matt black
			1.5 over 2.3 to 2.4 GHz					
10-259-15	High gain MLS (Diredional) antenna	5.0-5.25 GHz	2.0	V	TNC female	0.31	0.14	Matt black
10-259-20	SKE OMNIantenna	3.3-3.6GHz	1.5:1	V	N.(Male)	0.44	0.2	Matt black

10-262-1	L band antenna type A T 741 A I A	950-1250	1.5:1	V	BNC /HC female	0.31	0.14	Matt black Gloss white
10-262-02	L band antenna	950-1250	1.25:1 / 1020-1100 1.5:1 / 950-1250	V	HN female	0.31	0.14	Matt black Gloss white
10-262-4	L band antenna	950-1250	1.35:1	V	N female	0.31	0.14	Gloss white
10-262-6	L band antenna	950-1250 1020-1100 1.5 950-1250	1.25	V	BNC female	0.31	0.14	Matt black

10-264-01	GPS/Navstar antenna	1218-1238MHz 1565-1585MHz			SMA			Matt black Gloss white
10-264-03	GPS antenna	1565-1585MHz	15:1	Circular	SMA	1.1	0.5	Matt black
10-264-07	Dual Frequency GPS Antenna	1217-1237 / 1565-1585	2:1	RHCP	TNC (female)	0.34	0.15	White
10-264-08	Single Frequency GPS Antenna	1575	2:1	RHCP	TNC (female)	0.34	0.15	White
10-264-14	Dual Frequency GPS Antenna	1217-1237 1565-1585	2:1	RHCP	TNC (female)	0.34	0.15	White with amplifier

10-266-321 10-266-322 10-266-323	H.F. antenna Masts For 1″ dia. Tube Fixed & Sliding	2-30			Various	1.2	0.55	Colours on request

10-271-03	Flush Mount L band antenna	960-1250 MHz	1.5:1	V	N socket	1.1	0.5	Matt black
10-271-04	Flush Mount L band antenna	960-1250 MHz	1.5:1	V	TNC socket	1.32	0.6	Matt black

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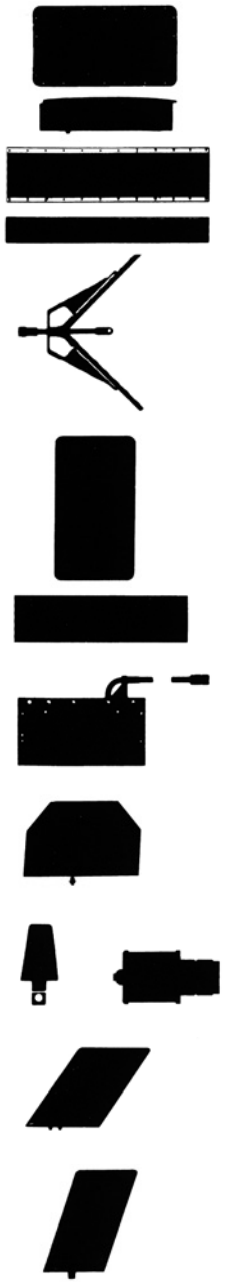

HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10-302-P	Suppressed homer azimuth (port)	162-174	2:1	V	N jack	7.5	3.4	Light Grey
10-302-S	Suppressed homer azimuth (star'd)	162-174	2:1	V	N jack	7.5	3.4	Light Grey
10-303	VHF locator	162-174	2.5:1		2 x BNC jack	6.47	2.93	Light Grey
10-304-1	Vee-type (IFF antenna)	1030-1090	1.35:1	Linear	C plug Flyhead & N panel socket	6.0	2.72	Light Grey
10-305-1P	Suppressed homer azimuth (port)	162-174			N jack	5.0	2.3	Light grey
10-305-1S	Suppressed homer azimuth (starb'd)	162-174			N jack	5.0	2.3	Light Grey
10-306-1	VHF locator	162-174			2 x BNC jacks			Alocrom
10-307-1	Suppressed notch IFF	1020-1100	2:1	V	C plug on flylead	2.3	1.04	
10-307-3	Suppressed notch IFF	1020-1100	2:1	V	C bulkhead jack	2.3	1.04	
10-308-1	IFF assy	1020-1100	2:1	V	C bulkhead socket	2.3	1.04	Yellow chromate
10-309-1	I-band transponder	9190-9460	1.5:1 / 9260-9360 2:1 / 9190-9460	H	N socket	1.0	0.45	Matt black
10-309-02	I band beacon antenna	9.1-9.4	2.0:1	H	N Male	0.25 max		Gloss white
10-310-1	VHF antenna	135-175	2:1	V	TNC & test BNC	4.0	1.81	Black
10-310-2	VHF tact homing	135-175	2:1	V	TNC & test BNC	4.0	1.81	White
10-310-3	VHF antenna				TNC & test BNC	4.0	1.81	White
10-310-4	VHF antenna	135-175	2:1	V	TNC & test BNC	4.0	1.81	Sea Grey
10-311-1	UHF telemetry	282-292	2:1	V	N socket	0.77	0.35	

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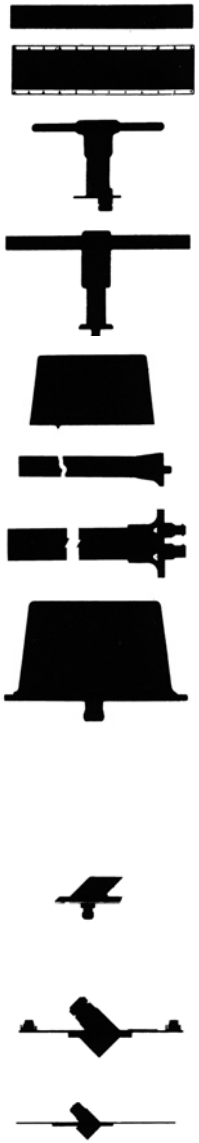
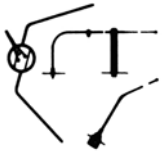


HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10-313-1	VHF locator (matched pair) F:fore A:aft	135-176	2.5:1	V&H	TNC female	1.98	0.9	Matt black
10-313-2	VHF locator (matched pair) F:fore A:aft	135-176	2.5:1	V&H	TNC socket & BNC (test)	1.98	0.9	White
10-315-1	D band dipole	960-1100	2:1	V	N or TNC	0.28	0.13	
10-316-1	D band dipole flyhead length 0.5″	960-1100	2:1	V	SMA straight jack	0.92	0.42	Matt black
10-316-2	D band dipole flyhead length 0.75″	960-1100	2:1	V	SMA straight jack	0.92	0.42	Matt black
10-316-3	D band dipole flyhead length 0.875″	960-1100	2:1	V	SMA straight jack	0.92	0.42	Matt black
10-317-1	VHF locator	135-176	2.5:1	H&V	TNC female	5.37	2.44	Matt black
10-318-1	Sono buoy receiving	135-175	3.0:1	V	TNC socket	1.1	0.5	Golden Yellow
10-318-2	Sono buoy receiving	135-175	3.0:1	V	TNC socket	1.1	0.5	Light Grey
10-318-10	Active Monopole antenna	30-88	2.0:1		BNC female	0.31	0.68	Colours on request
10-319-1	JTIDS antenna				N female			Matt black
10-319-2	JTIDS hi speed no probe				N	0.48	0.22	Matt black
10-319-3	JTIDS hi speed with probe				N & TNC test	0.48	0.22	Matt black
10-319-4	LDA vert. mtg.	1030±8RX 1090±3TX	1.5:1	V	Rad:TNC Bite:BNC	0.48	0.22	Matt black
10-319-5	LDA horiz. mtg. (as 10-319-4 but narrow base)	1030±8RX 1090±3TX	1.5:1	V	Rad:TNC Bite:BNC	0.48	0.22	Matt black
10-319-6	LDA vert. mtg	1030±8RX 1090±3TX	1.5:1	V	Rad:TNC Bite:BNC	0.48	0.22	Matt black
10-325-1	Telemetry antenna	2.2-2.29GHz	1.5:1	V	TNC socket	0.05	25gms	Matt black
10-325-2	Proximity sensor antenna	2.7GHz	1.5:1	V	TNC socket	0.05	25gms	Matt black
10-403	Bow tie antenna							
10-404-1	Rear reference antenna - Fwd							Silver Plate
10-404-2	Rear reference-aft	Details available on request			N	0.23	0.105	Grey
10-404-3	Rear reference				N	0.35	0.160	Grey

1. Airborne Antennas



HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10-406-2	Butterfly antenna				N	2.75	1.25	Matt black
10-408-1	MAW Auxiliary antenna				TNC	0.48	0.22	Colour on request
10-500-1	Comms (similar to 10-202 series)	118-136	2.0:1	V	BNC	0.24	0.109	White
10-500-2	Nav	108-118	2.0:1	H	6 BA nuts & Balun 192	0.43	0.19	White
10-500-3	Marker	75	3.0:1	H	10-32 UNF	0.37	0.17	White
10-500-4	Glide slope	328-336	3:1	H	6 BA nuts & Balun 513	0.36	0.16	White

2. Conductive Sealing Gaskets

10-500-11 series	Conductive sealing gaskets and gasket kit (wet fit)	Details available upon request
10-500-11A series	Dry fit sealing gaskets	

3. Ancillaries

10-512-1	Unit UHF homer combining	100-500	2:1		N sockets	1.75	0.80	
10-512-2G	Unit							
10-512-3	Unit (similar to 10-512-1)	100-500	2:1		N sockets	1.75	0.80	
10-512-4	Unit	100-500	2:1					
10-512-5	Unit	100-500	2:1		N sockets	2.03	0.92	
10-512-6	Unit	30-400	2:1		N sockets	1.75	0.80	
10-514-1	Pulse blanking distribution unit					1.02	0.46	Grey
10-514-2	Pulse blanking distribution unit					1.02	0.46	Grey
10-515-1	Matching unit				3 x TNC sockets 3 x TNC plugs	0.35	0.16	Matt black
10-516-1	ILS / VOR matching unit (for 10-113)	108-118	1.3:1		3 x N sockets	0.85	0.33	Grey

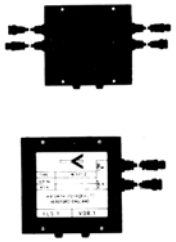
3. Ancillaries

HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10-518-1	Ice Detection Blade					0.49	0.22	
10-519-1	Feeder cable assy for 10-206				TNC plugs	1.42	0.64	
10-520-1	Antenna coupler	162-174			Ant: N. jack Rec: BNC jack	0.80	0.35	Matt Black
10-520-2	VOR.LOC./Glide Slope Diplexer				Ant: TNC Rec: N	0.8	0.35	Colours on Request
10-520-3	VOR.LOC. Coupler				Ant: TNC Rec: N	0.8	0.35	Colours on Request
10-520-4	VOR.LOC./glide slope Diplexer (M.Spec.)				Ant: TNC Rec: N	0.8	0.35	Colours on Request
10-520-5	Dual VOR.LOC./Glide slop coupler				Ant: TNC VOR.LOC. N (female) Glide N (male)			Colours on Request
10-521-1	Hybrid coupler 3dB 90˚	214-236	1.2:1		N	1.1	0.5	Matt Black
10-521-2	Hybrid coupler 3dB 90˚	225-400	1.2:1		N	1.1	0.5	Matt Black
10-521-3	Hybrid coupler 3dB 90˚	100-200	1.2:1		N	1.1	0.5	Matt Black
10-523-2	FM phase matching unit	30-76	1.25:1		2xTNC plugs 2xTNC jacks	0.8	0.36	Matt Black
10-525-1	90˚ 3dB Hybrid coupler	135-175	1.2:1		4x TNC plugs 2x TNC plugs	0.8 0.8	0.36 0.36	Matt Black
10-523-2	90˚ 3dB Hybrid coupler	135-175	1.25:1		2x TNC plugs	0.8	0.36	Matt Black
10-523-3	90˚ 3dB Hybrid coupler	135-175	1.25:1		4x TNC plugs	0.8	0.36	Matt Black
10-526-1	Phase matched cables for 10-310 p & S							
10-527-1	Feeder cable for 10-313 (fore & aft)							
10-528-1	3dB 90˚ Hybrid coupler 225-400 MHz	225-400			4 x N sockets	0.7	0.31	Matt Black
10-529-2	Hi-pass filter	Cut off 225	1.5:1		2 x TNC socket	0.44	0.2	Matt Black

3. Ancillaries

HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10-530-1	Low pass filter	Cut off 150	1.7:1		2 x TNC socket	0.44	0.2	Matt Black
10-530-2	Low pass filter	Cut off 150	1.7:1		2 x TNC socket	0.44	0.2	Matt Black
10-530-4	Low pass filter	950-1250	1.5:1		TNC female		0.48	
10-531-1	High pass filter	Stop 136 & below 225-400	1.35:1		2 x N	0.188	0.085	
10-532-1	Band pass filter	Pass 118-136 Stop 26-76 Stop 225-400	1.35:1		2 x N	0.25	0.114	Matt Black
10-532-2	Low pass filter	Below 470 MHz	1.5:1			0.25	0.114	
10-533-5	Matched Coax cable pairs 22.98″				TNC plugs			
10-533-6	Matched Coax cable pairs 20.00″				TNC plugs			
10-533-7	Matched Coax cable pairs 14.00″				TNC plugs			
10-533-8	Matched Coax cable pairs 22.98″				TNC plugs			
10-534-1	Phase matched cables 14″				TNC plug + Jack			
10-534-2	Phase matched cables 76″				TNC plug + Jack			
10-534-3	Phase matched cables	150-160			BNC & TNC			

10-536-1	Hybrid splitter	108-118	1.35:1		Ant: TNC skt on fly Pla: TNC skt Ska: TNC plug	0.6	0.26	Matt Black
10-536-2	Hybrid splitter	320-340	1.50:1		Ant: BNC plug Pla: TNC skt Ska: TNC plug	0.6	0.26	Matt Black
10-536-3	Hybrid splitter	108-118	1.35:1		Ant: BNC plug Pla: TNC skt Ska: TNC plug	0.6	0.26	Matt Black
10-536-4	Hybrid splitter	108-118	1.35:1		TNC male/ female	0.6	0.26	Matt Black



10-537-1	Distribution unit				2 x TNC skts 2 x TNC plugs on flyleads	1.52	0.69	Matt Black
10-537-2	Distribution unit				2 x TNC skts 2 x TNC plugs on flyleads			Matt Black
10-537-3	Distribution unit							

3. Ancillaries

HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10-540-1	Logic level converter						0.17	Matt Black
10-542-1	Diplexer unit	30-400	1.5:1		BNC skt TNC skt N skt	1.0	0.45	Matt Black
10-542-2	VHF/UHF Diplexer	30-400	1.5:1 1.75:1		BNC female			Matt Black
10-542-5	VHF/UHF Diplexer	30-400	1.5:1 1.75:1		BNC female			Matt Black
10-542-6	VHF/UHF Diplexer	30-400	1.5:1 1.75:1		N female			Matt Black

10-550-01	Diplexer UHF/L band	225-400 950-1220			N female HN female	0.75	0.34	Matt Black

10-561-12	Logic Converter for use with collins ARC 182				1.65	0.75		
10-562 series	Logic converter for :- Elmer SRT 651 Rockwell Collins ARC 182, 186, 210 Rohde & Schwarz 6000 Marconi 3400 Wolfsburg ARC 114/340/210/205						0.8	Matt Black

10-570	Matching unit				TNC			

10-602-1	HF wire attach. hook					0.1	0.045	
10-602-2	HF wire attach.clip					0.08	0.036	

10-604-3	Matching Transformer	118-174	1.5:1		TNC female/ male	0.44	0.2	Matt Black
10-604-4	Co-ax relay A05/1	30-400	1.2:1		3 x N sockets	0.44	0.2	Matt Black
10-604-4A	Co-axial relay	30-400	1.2:1		N sockets	0.44	0.2	Matt Black
10-604-5	Co-ax relay A05 (opp. hand)	30-400	1.2:1		3 x N sockets	0.44	0.2	Matt Black

4. Dischargers

HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish	TSO Number
10-900 Series	Static discharger							Black	
	Data available upon request								

5. 2nd Generation Antennas

10-105-24	Low profile VHF antenna	118-156	2:1	V	C	2	0.9	See Note	TSO C37d/38d
10-105-29	VHF Comms antenna	118-156	2:1	V	C	2.2	1.0	See Note	TSO C37d/38d
10-105-31	Low profile VHF Comms antenna	118-156	<2:1	V	BNC/TNC/N/HN	2.2	1.0	See Note	TSO C37d/38d
10-105-112	Low profile VHF Comms antenna	118-156	<2:1	V	BNC/C/TNC/N/HN	2.2	1.0	See Note	TSOC37d/38d
10-118-1P	Low profile VHF antenna	118-137	<2.5:1	V	BNC	1.0	0.45	See Note	TSOC37d/38d
10-118-2P	Low profile VHF antenna	118-137	<2.5:1	V	TNC	1.0	0.45	See Note	TSOC37d/38d
10-118-27	Low profile VHF antenna	118-137	<2.5:1	V	BNC/TNC	1.0	0.45	See Note	TSOC37d/38d
10-118-28	Multiband ELT antenna	121.5/243/406	2.5:1/2.5:1/1.5:1	V	TNC	0.62	0.28	See Note	TSOC37d/38d
10-203-1P	L Band Antenna	950-1250	1.3:1 (1000-1100MHz) 1.7:1 remainder of band	V	N	0.19	0.085	See Note	TSO C66c
10-203-2P	L Band Antenna	950-1250	1.3:1 (1000-1100MHz) 1.7:1 remainder of band	V	TNC	0.19	0.085	See Note	TSO C66c
10-203-3P	L Band Antenna	950-1250	1.3:1 (1000-1100MHz) 1.7:1 remainder of band	V	C	0.19	0.085	See Note	TSO C66c
10-203-4P	L Band Antenna	950-1250	1.3:1 (1000-1100MHz) 1.7:1 remainder of band	V	HN	0.19	0.085	See Note	TSO C66c
10-203-11P	L Band Antenna	950-1250	1.3:1 (1000-1100MHz) 1.7:1 remainder of band	V	N	0.19	0.085	See Note	TSO C66c
10-203-12P	L Band Antenna	950-1250	1.3:1 (1000-1100MHz) 1.7:1 remainder of band	V	TNC	0.19	0.085	See Note	TSO C66c
10-203-13P	L Band Antenna	950-1250	1.3:1 (1000-1100MHz) 1.7:1 remainder of band	V	C	0.19	0.085	See Note	TSO C66c
10-203-14P	L Band Antenna	950-1250	1.3:1 (1000-1100MHz) 1.7:1 remainder of band	V	HN	0.19	0.085	See Note	TSO C66c
10-203-15	TFTS antenna	1670-1675 (RX) 1800-1805 (TX)	<1.5:1	V	N (female)	0.19	0.085	See Note	TSO C66c

NOTE: Colours available: Self coloured white/yellow. Polyurethane paint to DTD-5580A gloss white/matt black, other colours available on request.

5. 2nd Generation Antennas

HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish	TSO Number
10-203-20P	L Band Antenna	950-1250	1.3:1 (1000-1100 MHz) 1.7:1 remainder of band	V	N (female)	0.19	0.085	See Note	TSO C66c
10-203-21P	L Band Antenna	950-1250	1.3:1 (1000-1100 MHz) 1.7:1 remainder of band	V	C (female)	0.19	0.085	See Note	TSO C66c
10-203-22P	L Band Antenna	950-1250	1.3:1 (1000-1100 MHz) 1.7:1 remainder of band	V	HN (female)	0.19	0.085	See Note	TSO C66c
10-203-23	L Band Antenna	950-1250	1.3:1 (1000-1100 MHz) 1.7:1 remainder of band	V	C (female)	0.19	0.085	See Note	TSO C66c
10-203-24	L Band Antenna	950-1250	1.3:1 (1000-1100 MHz) 1.7:1 remainder of band	V	N (female)	0.19	0.085	See Note	TSO C66c
10-203-25	L Band Antenna	950-1250	1.3:1 (1000-1100 MHz) 1.7:1 remainder of band	V	TNC (female)	0.19	0.085	See Note	TSO C66c
10-203-26	L Band Antenna	950-1250	1.3:1 (1000-1100 MHz) 1.7:1 remainder of band	V	C (female)	0.19	0.085	See Note	TSO C66c
10-203-27	L Band Antenna	950-1250	1.3:1 (1000-1100 MHz) 1.7:1 remainder of band	V	HN (female)	0.19	0.085	See Note	TSO C66c
10-203-28	L Band Antenna	950-1250	1.3:1 (1000-1100 MHz) 1.7:1 remainder of band	V	N/TNC/C/HN	0.19	0.085	See Note	TSO C66c
10-203-32	L Band Antenna	950-1250	1.3:1 (1000-1100 MHz) 1.7:1 remainder of band	V	N/TNC/C/HN	0.19	0.085	See Note	TSO C66c
10-203-37	L Band Antenna	950-1250	1.3:1 (1000-1100 MHz) 1.7:1 remainder of band	V	N/TNC/C/HN	0.19	0.085	See Note	TSO C66c

10-204-1P	Dual guideslope antenna	328-336	3:1	H	C	0.34	0.15	See Note	TSO C34e
10-204-3P	Dual guideslope antenna	328-336	3:1	H	N	0.34	0.15	See Note	TSO C34e
10-204-5P	Dual guideslope antenna	328-336	3:1	H	TNC	0.34	0.15	See Note	TSO C34e
10-204-6	Dual guideslope antenna	328-336	3:1	H	C/N/TNC (female)	0.34	0.15	See Note	TSO C34e

10-205-1P	Single guideslope antenna	328-336	<3:1	H	N	0.34	0.15	See Note	TSO C34e
10-205-3P	Single guideslope antenna	328-336	<3:1	H	C	0.34	0.15	See Note	TSO C34e
10-205-4P	Single guideslope antenna	328-336	<3:1	H	N	0.34	0.15	See Note	TSO C34e

10-208-1FP	External marker antenna	74.75-75.25	<1.5:1	H	C (female)	0.55	0.25	See Note	TSO C35d
10-208-2FP	External marker antenna	74.75-75.25	<1.5:1	H	BNC (female)	0.55	0.25	See Note	TSO C35d
10-208-3FP	Externnal marker antenna	74.75-75.25	<1.5:1	H	C (female)	0.55	0.25	See Note	TSO C35d
10-208-4F	External marker antenna	74.75-75.25	2:1	H	TNC (female)	0.55	0.25	See Note	TSO C35d
10-208-5	External marker antenna	74.75-75.25	<2:1	H	BNC/C/TNC	0.55	0.25	See Note	TSO C35d
10-208-6	External marker antenna	75	3:1	H	BNC/C/TNC	0.55	0.25	See Note	TSO C35d
10-208-15	External marker antenna	75	1.5:1	H	BNC/C/TNC	0.55	0.25	See Note	TSO C35d
10-280-20	External marker antenna	75	1.5:1	H	BNC/C/TNC	0.55	0.25	See Note	TSO C35d

NOTE: Colours available: Self coloured white/yellow. Polyurethane paint to DTD-5580A gloss white/matt black, other colours available on request.

5. 2nd Generation Antennas

HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish	TSO Number
10-219-3	Radio altimeter antenna	4200-4400	2:1	Linear	TNC (female)	0.26	0.12	See Note	TSO C35d
10-250-9	VOR. LOC. /Glideslope antenna	108-118 328-336	5:1	H	BNC/TNC	1.1	0.5	See Note	TSO C343/40c
10-250-11	Dual VOR. LOC. / Glideslope antenna	108-118 328-336	5:1	H	2 x BNC/TNC	1.1	0.5	See Note	TSO C34e/40c
10-150-07	Multiband Antenna	30-88, 108-174MHz	2.0:1		TNC Female + DC Connector		1.2Kg	Matt Black /+ Colours on request	
10-150-08 / 10-150-8LE 10-150-08+guard	Multiband Antenna	30-88, 108-174, 225-400MHz 960-1220MHz 1.5:1 960-1220MHz	2.5:1 30-88MHz 2.0:1 225-400MHz	Vertical	TNC Female + DC Connector N Female L/IFF		1Kg	Matt Black /+Colours on request	
10-150-08-S4	Multiband Antenna + guard + IFF	30-88, 108-174, 225-600MHz guard + IFF 1030-1090MHz	2.5:1 30-88MHZ 2.0:1 225-400MHz 1.5:1 960-1220MHz	Vertical	TNC Female + DC Connector N Female L/IFF		1kg	Colours on request	
10-150-12	Multiband Antenna + IFF	30-88, 108-174, 225-600MHz guard + IFF 1030-1090MHz	2.5:1 30-88MHz 2.0:1 225-400MHz	Vertical	TNC Female + DC Connector		1kg	Colours on request	
10-150-15 New	Multiband Antenna + IFF	30-88, 108-174, 225-600MHz guard + IFF 1030-1090MHz	2.5:1 30-88MHz 2.5:1 116-174MHz 2.25:1 225-400MHz 1.5:1 1030-1090MHz	Vertical	N Female V/UHF TNC Female IFF		1.9Kg	Matt Black	
10-150-19	Multiband Antenna + guard	30-88, 108-174, 225-600MHz	2.5:1 30-88MHz 2.0:1 225-400MHz	Vertical	TNC Female + DC Connector		1kg	Colours on request	
10-150-21 / 150-215	Low Profile Multiband Antenna	30-88, 108-174, 225-600MHz	2.5:1 30-174MHz 2.0:1 225-400MHz 2.5:1 400-600MHz	Vertical	TNC Female + DC Connector		1.4kg	Colours on request	
10-150-21 / 10-150-21-S4 10-150-21S-S4	Low Profile Multiband Antenna	30-88, 108-174, 225-600MHz	2.5:1 30-174MHz 2.0:1 225-400MHz	Vertical	TNC Female + DC Connector		1.4Kg	Colours on request	
10-150-22	Low Profile Multiband Antenna	30-512MHz	2.5:1 30-174MHz 2.0:1 225-512MHz	Vertical	TNC Female + DC Connector		1.4Kg	Matt Black	

NOTE: Colours available: Self coloured white/yellow. Polyurethane paint to DTD-5580A gloss white/matt black, other colours available on request.

5. 2nd Generation Antennas

HRS Part No.	Antenna Type	Frequency Range (MHz)	VSWR(<) 50ohms	Polarisation	Connector	lb	kg	Finish
10-150-25	Active Tuned Antenna	30-88MHz	2.5:1 30-88MHz	Vertical	TNC Female + DC Connector		1Kg	Colours on request
10-150-26	Multiband Antenna	30-960MHz	2.5:1 30-960MHz	Vertical	N Female 30-400MHz			
10-150-27	Multiband Antenna	30-2000MHz 30-600MHz 600-2000MHz	2.5:1 30-174MHz	Vertical	TNC Female 400-960MHz TNC Female N female DC Connector		1kg 1kg	Colours on request Colours on request
10-150-29	Multiband Antenna	30-941MHz	2.0:1 400-2000MHz 2.5:1 30-400MHz	Vertical	TNC Female V/UHF N Female Upper UHF		1Kg	Colours on request
10-150-30	Receive only Tuned Antenna	30-512MHz	5.0:1	Vertical	TNC Female		1Kg	Matt Black
10-150-34	Reconfigurable Antenna + guard	30-600MHz	2.5:1 30-174MHz 2.25:1 225-600MHz	Vertical	N Female + DC Connector			

6. Search & Rescue

HRS Part No.	Equipment Type	Frequency Range (MHz)	Description	Weight
Personal Locator Beacons				
500-12	Personal Locator Beacon	121.5, 243, 406 MHz		
500-30	Personal Locator Beacon	121.5, 243, 406 MHz + GPS	Upgrade beacon for URT33PLB	430gm
500-32	Personal Locator Beacon	121.5, 406 MHz + GPS	Compact, lightweight, low cost PLB	430gm
500-27-07YF	Personal Locator Beacon	121.5, 243, 406 MHz + GPS	Three frequency beacon with speech and float	900gm
500-27	Personal Locator Beacon	121.5, 243, 406 MHz + GPS	Three frequency beacon with simultaneous speech on 121.5 and 243MHz	600gm
500-27-07	Personal Locator Beacon	121.5, 243, 406 MHz + GPS	Three frequency beacon with simultaneous speech on 121.5 and 243MHz	650gm
CSAR				
500-37	Multi-Function Personal Rescue Beacon	SAR 121.5, 243, 406 MHz + GPS CSAR 225-250MHz	A mission programmable, secure, two way communications CSAR beacon, using data, text and voice communication	850gm
406-32	CSAR Receiver	225-250MHz	CSAR Receiver	8kg
407-4	Cockpit control and display	110-410MHz	Cockpit Control and Display	940gm
12-503-30	Programming unit	225-250MHz	Stand-alone mission programming unit	
10-118-49	Combined SAR/CSAR Antenna	110-410MHz	Combined SAR/CSAR Antenna	450gm
Direction Finding				
406-28	Direction Finding Processor	110-410MHz	Processor sweeps SAR frequencies and outputs directional data to the display	3.2Kg
10-246-1	Antenna Module	110-410MHz	Compact antenna system with integral receivers	2.8Kg
407-3	DF Display		Platform specific display module	
Crash Position Indicator				
503-16	Deployable Beacon	121.5, 243, 406MHz	Three frequency deployable beacon	3Kg
503-16 GPS	Deployable Beacon	121.5, 243, 406MHz + GPS	Three frequency deployable beacon with built in GPS	3Kg
503 Series	Emergency Locator Transmitter	121.5, 243, 406MHz + GPS		
503-22	Cockpit Control Panel		Used to test, monitor and manually deploy the Crash Position Indicator	620gm
503-21	Beacon Release Unit		Unit is used to deploy the Beacon Release Unit	700gm
503-24	System Interface Unit		Houses the G switch crash control sensor and system control functions	1.1Kg

7. Test Equipment

HRS Part No.	Equipment Type	Description	kg
12-406-9	Portable 406 SAR Decoder	Battery life 2 hours - colour touch screen	660gms
12-602-8	Antenna Cable Analyzer	100Khz - 3.6GHz - 6.5″ colour LCD with VGA resolution	<3kg
12-612	Discharger Test Set		

Design, Manufacture & Supply of Search and Rescue Equipment

PLB Units

Our range of PLB's transmit modulated signals on 121.5 / 243MHz distress frequency with characteristics in accordance with STANAG 7007, plus 406MHz in accordance with COSPAS/ SARSAT.

ELT's

All 503 series Emergency Locator Transmitters are designed to work with the COSPAS-SARSAT emergency satellite system and operate on 406 MHz in addition to the two traditional distress frequencies of 121.5 MHz and 243 MHz.

CPI's

We are a leading manufacturer of Automatic Deployable Emergency Locator Transmitters, supplying all the leading cpi control panel helicopter manufacturers and off shore operators. These systems are part of our 503 series and offer a top quality solution for all maritime aircraft whether commercial or military.

HR Smith Group of Companies

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