



A. Style

	Flexible Blade	Stubby or Patch for GPS	Whip	Thick Monopole and Dipole	Collinear Array	PNR/LMR
Frequency	VHF 30-512 MHz	Band (L1 1575.42 MHz) - Dipole (L1/L2 1227/1575 MHz) - Indium - Disubstar	VHF 30-512 MHz	Range up to 6 GHz - Multi-band	2.4-2.5 GHz - 4.84-4.94 GHz - 5.725-5.875 GHz - Multi-band	300-500 MHz bandwidth 30-50 MHz - VHF/UHF, L, ES00
Construction	- Water resistant up to 20 m - Blade assembly - Bidirectional blade assembly - Stainless steel tape material covered with MIL-STD shrink tubing	- Low profile stubby - Quarter/1/2 element (Stubby) - Ceramic patch	- Molded or over-molded TPU material - UV, oil, fuel, and fungus resistant - Good abrasion resistance - Good impact strength - Stainless steel cable - Flexible, 26 m immersion rugged whip	- UV resistant PC material - Thick monopole/dipole radiating element - Dipole array radiating element - Primed, fiber technology - Flexible - Stainless steel spring mount base - Spring breakaway joint	- Mold to high gain - Reinforced base - Radome - PCB element - Type N connector standard - UV resistant PC material	- Ultra rugged antennas - Molded or over-molded TPU material - UV, oil, fuel, and fungus resistant
Applications	- Tactical Radio - Communication - Jamming	- Global Positioning	- Tactical Radio - Communication - Jamming	- Jamming - Communication - Patrol/Equip - Jammers - Satcom Ground Vehicle (SU-0)	- Mesh Network	- Tactical/Police/Public Safety - Homeland Security - Police/Firefighter - Oil Agencies (FEMA, CIA)
Additional Order	- With or without gooseneck - Choice of connectors - Molded or over-molded - Size vs. power, and/or connector, matching network	- Passive or active - Custom LNA gain - With or without SAW filter (out of band rejection) - With Cable Assemblies - With RF Gooseneck - Custom marking*	- Choice of connectors - Molded or over-molded - Custom marking* - Making interface with radio - Size vs. power, and/or connector, matching network	- Choice of connectors - Finish: Matte Black, Navy Green, Desert Tan) - Custom markings* - Size vs. power and/or connector - Frequency bands - Min. or no ground plane	- Choice of connectors - With Cable Assemblies - With or w/o DC ground - Custom Radome covers - Ruggedized	- Choice of connectors - Ultra rugged - Length, 45-90 mm for single band, 230 mm for multi-band - Input contact or coaxial - Custom marking* - Multi-band

*Custom markings can include but are not limited to logo, part number, and date code

B. Applications

Type	Handheld	Manpack/Min portable	Vehicular	Small Form Factor	Custom/Other
Handheld	- Typical power < 10W - Blade assembly with & without gooseneck - Over-molded and multi-step - 2 m & 20 m immersion	- Typical power 20 W - Blade assembly with or without gooseneck - 2 m & 20 m immersion	- Manned and unmanned vehicle - Typical power 50 W - Breakaway joint	- Receiving only (GPS) - Low power (< 2 W) - Parasitic device - Rugged design for severe environmental conditions	- Switched beams array - Built to print milg - Test & measurement services

C. Physical Characteristics

Frequency	Power (W)	Construction/Characteristics
<i>Measured in MHz/Car</i>	<i>Measured in watts</i>	
Weight	Length	Part Number
<i>Measured in grams</i>	<i>Measured in mm</i>	



A. Style	B. Applications	C. Physical Characteristics									
Name	Type										
	Handheld	Manpack/Min portable	Vehicular	Small Form Factor	Custom/Other	Frequency (MHz/GHz)	Power (w)	Construction/Characteristics	Weight (oz/g)	Length (in/mm)	Part Number
Flexible Blade						30 - 90 MHz	16	With gooseneck	9	48.8	MD05-029*
						30 - 108 MHz	16	With gooseneck	9.5	48.77	MD06-017*
						30 - 512 MHz	16	With gooseneck	7.05	20	MD07-011*
						30 - 98 / 225 - 512 MHz	8	-	6	20	MD09-012*
						30-512 MHz	20	With gooseneck	12	49	MD11-033*
						30-512 MHz	20	With gooseneck	7.5	20	MD11-040*
						30-512 MHz	20	-	3.9	21.65	MD11-052*
						30-512 MHz	20	With gooseneck	8.5	20	MD12-012*
						30-108 MHz	20	With gooseneck	10.5	45	MD12-019*
						TBD	1-20	With gooseneck	-	-	Custom
Stubby or Patch for GPS						1575.42 MHz	NA	L1 Active antenna mounted on gooseneck	4	7.75	MD11-016
						1575.42 MHz	NA	L1 Active antenna/SMA mount	1.06	1.75	R380300013
						1575.42 MHz	NA	L1 Passive antenna/SMA mount	1.06	1.75	R380300014
						1575.42 MHz	NA	L1 High Gain active antenna/SMA mount	0.9	1.3	R380300018
						1227/1575 MHz	-	Direct mount or gooseneck	TBD	-	Custom*
Whip						225 - 400 MHz	8	Over-molded	2.5	10 (±0.25)	MD05-040*
						200 - 450 MHz	8	Over-molded	2.9	9.5 (±0.25)	MD05-055*
						225 - 450 MHz	8	Over-molded	4	10	MD07-030*
						30 - 512 MHz	20	Molded	3.9	13 (±0.25)	MD08-031*
						126-174 MHz	8	Over-molded	3	13 (±0.25)	MD10-003
Thick Monopole and Dipole						30-512 MHz	50	Quasi ground plane independent/4 in Ø	275	57.5	R380990010
						225 - 520 MHz	>100	Ground plane independent/4 in Ø	146	33.75	R280008800
						470 - 700 MHz	>100	Ground plane independent/2.4 in Ø	141	32	MD11-050*
						700 - 2500 MHz	>100	Ground plane independent/2.4 in Ø	141	800	R380990009
						2.4-2.5 GHz	2	6 dB array/breakaway joint/0.86 in Ø	11	16	R380500232
						2.4-2.5 GHz	2	2 1/6 dB array/breakaway joint/0.86 in Ø	4	8	R380900200
						2.4-2.5 GHz	2	3 dB/Blade Mast/Elevated Antenna	7.1	34	R380500234
						2.4-2.5 GHz	2	2 dB/stubby dipole reverse SMA	0.35	2.42	R380500125
						2.4-2.5 GHz	2	2 dB/stubby dipole reverse SMA	0.35	2.42	R380500127
						2.4-2.5 GHz	2	3 dB/Flexible dipole SMA	-	4.72	R380500140
Collinear array						2.4-2.5 GHz	20	4 dB/Type NAV stabilized Radome	5.5	11.7	MD11-029
						5.725-5.875 GHz	20	6 dB/Type NAV stabilized Radome	4.5	6.7	MD11-035
						4.8-4.94 GHz	20	6 dB/Type NAV stabilized Radome	5	7.2	MD11-037
						2.4-2.5 GHz, 5-5.9 GHz	20	6 dB/Type NAV stabilized Radome	4.04	8	R380900200
						TBD	TBD	TBD	TBD	TBD	Custom*
PNR/LMR						126-174/380-500/700-870 MHz	-	SMA female/Voices sleeve/Whip	2.3	9	MD12-052
						380-430 MHz	-	Custom pin/Dover-molded/Helical whip	-	<3.6	Multiple*
						TBD	-	TBD	-	-	Custom*

*Antenna is ISTAR



Antennas



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Europe

	ADDRESS	PHONE	FAX	EMAIL
FINLAND	Radiall Finland PO Box 202 • 01101 Oulu	+358 407522412		info@radiall.com
FRANCE	Radiall SA 101 Rue Philibert Hoffmann 93116 Rosny Sous Bois	+33 1 47 35 35 35	+33 1 47 35 35 16	info@radiall.com
GERMANY	Radiall GmbH Carl-Zeus-Str. 10 Carl-Zeus-Strasse 10 D-63222 Rodenmark	+49 40 74 91 07 0	+49 40 74 91 07 10	info@radiall.com
ITALY	Radiall Elettronica S.p.A. Via della Resistenza 113 • 20139 B. Jaccomio Milano	+39 02 48 85 111	+39 02 48 85 20 18	info@radiall.com
NETHERLANDS	Radiall Nederland BV Hogerbrinkweg 15a • 3921 KM Hoevelaken	+31 33 253 40 09	+31 33 253 45 12	info@radiall.com
SWEDEN	Radiall AB Södra-gvägen 2 • SE • 192 72 Solentuna	+46 8 444 34 10	+46 8 754 49 16	info@radiall.com
UNITED KINGDOM	Radiall Ltd Ground Floor & The Grand Union Office Park Packet Boat Lane UXBRIDGE Middlesex UB8 2DH United Kingdom	+44 1895 428000	+44 1895 425010	info@radiall.com

Asia

	ADDRESS	PHONE	FAX	EMAIL
CHINA	Shanghai Radiall Electronics CO, Ltd N° 390 Yong He Rd SHANGHAI 200072 P.R.C	+86 21 66523788	+86 21 66521177	info@radiall.com
HONG KONG	Radiall Electronics (Asia) Ltd Flat D, 6/F, Ford Glory Plaza, 37-39 Wing Hong Street • Cheung Sha Wan • Kowloon • Hong Kong	+852 29533833	+852 2952636	info@radiall.com
INDIA	Radiall India Pvt., Ltd 25.D.II phase Peenya Industrial Area, Bangalore-560108	+91 80 23720989	+91 80 28397228	info@radiall.com
JAPAN	Nikon Radiall Shibuya-Ku Ebisu 1-6-2, Kougetsu Bldg 403 • Tokyo 150-8013	+81 3 24406241	+81 3 24406242	info@radiall.com

Americas

	ADDRESS	PHONE	FAX	EMAIL
USA & CANADA	Radiall USA, Inc. #950 South 32nd Street Ste 401 Tempe, AZ 85284	+1 480-862-9400	+1 480-862-9403	info@radiall.com

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