







## A. Style

		Name					
							
<b>Frequency</b>	<b>Frequency</b>	<b>Frequency</b>	<b>Frequency</b>	<b>Frequency</b>	<b>Frequency</b>		
- VHF 30-512 MHz	- Band (L1 1575.42 MHz) - Dual-band (L1/L2 1227/1575 MHz) - Iridium - Globalstar	- VHF 30-512 MHz	- Range up to 6 GHz - Multi-band	- 2.4-2.5 GHz - 4.8-4.94 GHz - 5.725-5.875 GHz - Multi-band	- 380-500 MHz (bandwidth 30-50 MHz) - VHF/UHF/LTE800		
<b>Construction</b>	<b>Construction</b>	<b>Construction</b>	<b>Construction</b>	<b>Construction</b>	<b>Construction</b>		
- Water resistant up to 20 m - Blade assembly - Bidirectional blade assembly - Stainless steel tape material covered with Mil-STD shrink tubing	- Low profile stubby - Quadrifilar 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, 20 m immersible rugged whip	- UV resistant PC material - Thick monopole/dipole radiating element - Dipole array radiating element - Printed, filar technology - Flexible - Stainless steel spring mount base - Spring breakaway joint	- Mid 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		
<b>Applications</b>	<b>Applications</b>	<b>Applications</b>	<b>Applications</b>	<b>Applications</b>	<b>Applications</b>		
- Tactical Radio - Communication - Jamming	- Global Positioning	- Tactical Radio - Communication - Jamming	- Communication - Jamming - Satcom Ground Vehicle (SUGV)	- Point-to-Multipoint - Mesh Network	- Tetra/Tetrapol/Public Safety - Homeland Security - Police/Firefighter - Gvt Agencies (FEMA, CIA)		
<b>Additional Options</b>	<b>Additional Options</b>	<b>Additional Options</b>	<b>Additional Options</b>	<b>Additional Options</b>	<b>Additional Options</b>		
- 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* - Mating interface with radio - Size vs. power, and/or connector, matching network	- Choice of connectors - Finish (Matte Black, Nato 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 mounting bracket - With or w/o DC ground - Custom Radome colors - 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				
<b>Handheld</b>	<b>Manpack/Man portable</b>	<b>Vehicular</b>	<b>Small Form Factor</b>	<b>Custom/Other</b>
- Typical power < 10 W - Blade assembly with & without gooseneck - Over-molded and molded whip - 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) or low power (< 2 W) - Portable devices - Rugged design for severe environmental conditions	- Switched beams array - Built to print mfg - Test & measurement services

## C. Physical Characteristics

<b>Frequency</b> <i>Measured in MHz/GHz</i>	<b>Power (W)</b> <i>Measured in Watts</i>	<b>Construction/Characteristics</b>
<b>Weight</b> <i>Measured in oz/grams</i>	<b>Length</b> <i>Measured in in/mm</i>	<b>Part Number</b>



Name	Type					Frequency (MHz/GHz)	Power(w)	Construction/Characteristics	Weight (oz/g)	Length (in/mm)	Part Number
	Handheld	Manpack/Man portable	Vehicular	Small Form Factor	Custom/Other						
Flexible Blade	■					30 - 90 MHz	16	With gooseneck	9	48.8	MD05-029*
		■				30 - 108 MHz	16	With gooseneck	9.5	48.77	MD08-017*
	■	■				30 - 512 MHz	16	With gooseneck	7.05	20	MD09-011*
	■					30 - 88 / 225 - 512 MHz	8	-	6	20	MD09-012*
		■				30-512 MHz	20	With gooseneck	12	49	MD11-039*
		■				30-512 MHz	20	With gooseneck	7.5	20	MD11-049*
		■				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	MD12-017*
					■	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*
	■					136-174 MHz	8	Over-molded	3	13 (±0.25)	MD10-003
	■					30-512 MHz	8	Over-molded	3.9	13 (±0.25)	MD10-004
				■	TBD	-	-	-	TBD	Custom*	
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	30.75	R380000800
			■	■		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	R380999009
		■	■	■		2.4-2.5 GHz	2	6 dBi array/breakaway joint/0.86 in Ø	11	16	R380500232
		■	■	■		2.4-2.5/4.9-5.9 GHz	2	2/6 dBi array/breakaway joint/0.86 in Ø	4	8	R380900200
		■	■	■		2.4-2.5 GHz	2	3 dBi/Blade Mast/Elevated Antenna	7.1	34	R380500234
	■			■		2.4-2.5 GHz	2	2 dBi/stubby dipole reverse SMA	0.35	2.42	R380500125
	■			■		2.4-2.5 GHz	2	2 dBi/stubby dipole reverse SMA	0.35	2.42	R380500127
	■			■		2.4-2.5 GHz	2	3 dBi/Flexible dipole SMA	-	4.72	R380500140
					-	-	-	-	-	Custom*	
Collinear array				■		2.4-2.5 GHz	20	6 dBi/Type N/UV stabilized Radome	5.5	11.7	MD11-029
				■		5.725-5.875 GHz	20	6 dBi/Type N/UV stabilized Radome	4.5	6.7	MD11-035
				■		4.8-4.94 GHz	20	6 dBi/Type N/UV stabilized Radome	5	7.2	MD11-037
				■		2.4-2.5/4.9-5.9 GHz	20	6 dBi/Type N/UV stabilized Radome	4.04	8	R380900200
				■	■	TBD	TBD	TBD	TBD	-	Custom*
PMR/LMR	■					136-174/380-520/760-870 MHz	-	SMA female/Molded sleeve/Whip	2.3	9	MD12-052
	■					380-430 MHz	-	Custom pin/Over-molded/Helical whip	-	<3.6	Multiple*
	■					TBD	-	TBD	-	-	Custom*

\*Antenna is ITAR



# Antennas



## area offices local contacts

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It's not just a slogan. It's a statement of our earnest desire to put you at the forefront of all our business practices. As part of Radiall's mission to be available and accessible, we make it a priority to have local offices around the globe ready and able to assist you – wherever you are, whenever you need us.

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