

# Antenna Selection Chart

**SEE 3D ANTENNA PATTERNS**  
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Model	Sub-Series	Type	Frequency Range		Polarization	Power	Pattern	Mounting	Applications					3D Patterns Available				
			Low Frequency (MHz)	High Frequency (MHz)					Microwave	EMC	Automotive	Defense/Aerospace	Surveillance		Wireless			
Loops	6502	Active Shielded Loop	0.01	30	Linear	N/A Receive Only	Omnidirectional	1/4" - 20		•								
	6507	Active Shielded Loop	0.001	30	Linear	N/A Receive Only	Omnidirectional	1/4" - 20		•								
	6509	Loop	0.001	30	Linear	N/A	Omnidirectional	1/4" - 20		•								
	6511	Shielded Loop	0.00002	5	Linear	N/A	Omnidirectional	1/4" - 20		•								
	6512	Shielded Loop	0.01	30	Linear	N/A	Omnidirectional	1/4" - 20		•								
Coils	7603	Coil Antenna	0.00002	0.05	Linear	N/A	Omnidirectional	1/4" - 20		•								
	7604	Shielded Coil	0.00002	0.5	Linear	N/A	Omnidirectional	1/4" - 20		•								
	7605	Coil Antenna	0.00003	0.1	Linear	N/A	Omnidirectional	1/4" - 20		•								
	7606	Shielded Coil	0.00003	0.01	Linear	N/A Receive Only	Omnidirectional	1/4" - 20		•								
Biconicals	3104C	Biconical	20	200	Linear	50W	Omnidirectional	EMCO		•								
	3109	Biconical	20	300	Linear	2kW	Omnidirectional	1/4" - 20		•								
	3110C	Biconical	30	300	Linear	250mW	Omnidirectional	EMCO, Stinger		•								
	3158	Biconical	20	150	Linear	5kW	Omnidirectional	Custom		•								
	3159	Biconical	30	100	Linear	15kW	Omnidirectional	Custom		•								
	3180	Biconical	30	1000	Linear	200W	Omnidirectional	EMCO, Stinger		•								
	3181	Biconical	1000	9000	Linear	50W	Omnidirectional	1/4" - 20		•								
	3182	Biconical	30	1000	Linear	200W	Omnidirectional	EMCO, Stinger		•								
	3183	Biconical	1000	18000	Linear	50W	Omnidirectional	1/4" - 20		•								
	3184	Biconical	1000	18000	Linear	50W	Omnidirectional	1/4" - 20		•								
Rods	3303	Monopole	0.001	30	Linear	1kW	Omnidirectional	1/4" - 20		•								
Dipoles	3121D	DB-1	Tunable Dipole	30	60	Linear	260W	Omnidirectional	EMCO, Stinger		•							
		DB-2	Tunable Dipole	60	140	Linear	160W	Omnidirectional	EMCO, Stinger		•							
		DB-3	Tunable Dipole	140	400	Linear	80W	Omnidirectional	EMCO, Stinger		•							
		DB-4	Tunable Dipole	400	1000	Linear	50W	Omnidirectional	EMCO, Stinger		•							
	3125	-450	Precision Dipole	440	460	Linear	20W	Omnidirectional	Bracket									
		-600	Precision Dipole	590	610	Linear	20W	Omnidirectional	Bracket									
		-870	Precision Dipole	824	915	Linear	10W	Omnidirectional	Bracket		•							
		-950	Precision Dipole	935	960	Linear	10W	Omnidirectional	Bracket		•							
		-1610	Precision Dipole	1600	1620	Linear	10W	Omnidirectional	Bracket		•							
		-1750	Precision Dipole	1710	1785	Linear	5W	Omnidirectional	Bracket		•							
		-1840	Precision Dipole	1805	1880	Linear	5W	Omnidirectional	Bracket		•							
		-1880	Precision Dipole	1850	1910	Linear	1W	Omnidirectional	Bracket		•							
		-2450	Precision Dipole	2440	2460	Linear	1W	Omnidirectional	Bracket		•							
		-3000	Precision Dipole	2990	3010	Linear	1W	Omnidirectional	Bracket		•							
		3126	-450	Precision Sleeve Dipole	440	460	Linear	1W	Omnidirectional	Custom		•						
			-700	Precision Sleeve Dipole	690	710	Linear	1W	Omnidirectional	Custom		•						
			-836	Precision Sleeve Dipole	826	846	Linear	1W	Omnidirectional	Custom		•						
			-880	Precision Sleeve Dipole	870	890	Linear	1W	Omnidirectional	Custom		•						
			-1575	Precision Sleeve Dipole	1565	1585	Linear	1W	Omnidirectional	Custom		•						
			-1880	Precision Sleeve Dipole	1870	1890	Linear	1W	Omnidirectional	Custom		•						
-2450	Precision Sleeve Dipole		2440	2460	Linear	1W	Omnidirectional	Custom		•								
-3600	Precision Sleeve Dipole		3500	3700	Linear	1W	Omnidirectional	Custom		•								
3127	-450	Magnetic Dipole	440	460	Linear	1W	Omnidirectional	Custom		•								
	-700	Magnetic Dipole	690	710	Linear	1W	Omnidirectional	Custom		•								
	-836	Magnetic Dipole	826	846	Linear	1W	Omnidirectional	Custom		•								
	-1880	Magnetic Dipole	1870	1890	Linear	1W	Omnidirectional	Custom		•								
	-2450	Magnetic Dipole	2440	2460	Linear	1W	Omnidirectional	Custom		•								
BiConiLogs™	3140B	Hybrid Log Periodic and Bowtie (BiConiLog™)	26	3000	Linear	1kW	Directional	EMCO										
	3142D	Hybrid Log Periodic and Bowtie (BiConiLog™)	26	6000	Linear	800W	Directional	EMCO, Stinger										
	3149	Hybrid Log Periodic and Bowtie (BiConiLog™)	80	6000	Linear	800W	Directional	EMCO, Stinger										
Conical Log Spirals	3101	Conical Log Spiral	200	1000	Circular	100W	Directional	Bracket										
	3102	Conical Log Spiral	1000	10000	Circular	50W	Directional	Bracket		•								
	3103	Conical Log Spiral	100	1000	Circular	100W	Directional	Bracket		•								
Log Periodic Dipole Arrays	3144	Log Periodic Dipole Array	80	2000	Linear	1kW	Directional	EMCO										
	3148B	Log Periodic Dipole Array	200	2000	Linear	1kW	Directional	EMCO, Stinger										
	3151	Fore-shortened Log Periodic Dipole Array	20	250	Linear	5kW	Directional	Custom										
	3152	Dual LPDA Array	200	2000	Linear	1kW	Directional	Custom										
	3147	Log Periodic Dipole Array	200	5000	Linear	80W	Directional	EMCO										
Pyramidal Standard Gain Horns	3145BDP	Dual Polarized	100	1000	Dual Linear	800W	Directional	Custom										
		3160	u5 Standard Gain Pyramidal Horn	500	750	Linear	550W	Directional	Custom		•							
		-1	Standard Gain Pyramidal Horn	960	1460	Linear	550W	Directional	1/4" - 20		•							
		-2	Standard Gain Pyramidal Horn	1120	1700	Linear	550W	Directional	1/4" - 20		•							
		-3	Standard Gain Pyramidal Horn	1700	2600	Linear	550W	Directional	1/4" - 20		•							
		-4	Standard Gain Pyramidal Horn	2600	3950	Linear	250W	Directional	1/4" - 20		•							
		-5	Standard Gain Pyramidal Horn	3950	5850	Linear	250W	Directional	1/4" - 20		•							
		-6	Standard Gain Pyramidal Horn	5850	8200	Linear	250W	Directional	1/4" - 20		•							
		-7	Standard Gain Pyramidal Horn	8200	12400	Linear	250W	Directional	1/4" - 20		•							
		-8	Standard Gain Pyramidal Horn	12400	18000	Linear	200W	Directional	1/4" - 20		•							
-9	Standard Gain Pyramidal Horn	18000	26500	Linear	50W	Directional	Bracket		•									
Octave Horns	3161	-1	Octave Horn	1000	2000	Linear	550W	Directional	1/4" - 20									
		-2	Octave Horn	2000	4000	Linear	250W	Directional	1/4" - 20									
		-3	Octave Horn	4000	8000	Linear	250W	Directional	1/4" - 20									
Field Generating Horns	3162	-1	Field Generating Horn	1200	1400	Linear	550W	Directional	1/4" - 20									
		-2	Field Generating Horn	2700	3100	Linear	300W	Directional	1/4" - 20									
Dual Ridged Horns	3112	Dual Ridged Horn Antenna	100	1000	Linear	2kW (EIA 1.5/8)	Directional	Custom										
	3106B	Dual Ridged Horn Antenna	200	2500	Linear	800W	Directional	1/4" - 20										
	3115	Dual Ridged Horn Antenna	750	18000	Linear	500W	Directional	Bracket		•								
	3117	Dual Ridged Horn Antenna	1000	18000	Linear	300W	Directional	Stinger, Bracket		•								
	3116	Dual Ridged Horn Antenna	18000	40000	Linear	50W	Directional	Bracket		•								
Open Boundary Quad Ridged Horns	3164-01	Open Boundary Horn Antenna	100	1000	Dual Linear	100W	Directional	Flange, Custom										
	3164-06	Quad Ridged Horn Antenna	300	6000	Dual Linear	50W	Directional	Flange, Bracket										
	3164-08	Open Boundary Horn Antenna	700	10000	Dual Linear	100W	Directional	Flange, Bracket										
	3164-05	Open Boundary Horn Antenna	2000	18000	Dual Linear	25W	Directional	Flange, Bracket										

**\*Mounting**  
1/4" - 20 = 1/4" THD Mount for Tripod  
EMCO = Classic EMCO Mount  
Stinger = Stinger Mount  
Flange = Flange to Shield  
Bracket = Bracket Mount for Tripod or Positioner  
Custom = Custom Mount

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