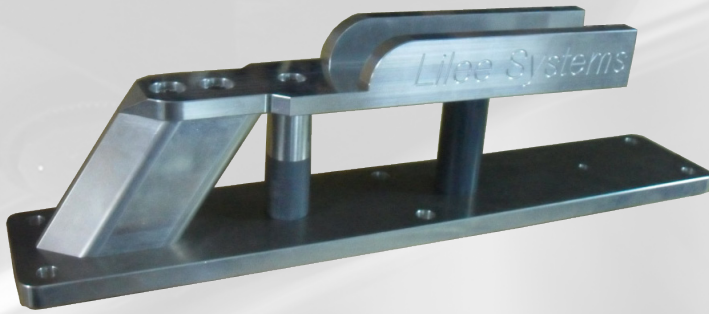


TransAir™ 220 MHz 3 dBi Pifa Antenna

Lilee Systems™ Locomotive Antenna for Positive Train Control (PTC) Applications



Features

- Rugged, nearly indestructible aluminum design with a low profile
- Wide bandwidth to reduce detuning from harsh weather such as ice and snow
- Reduces EMF noise introduced into the communications system

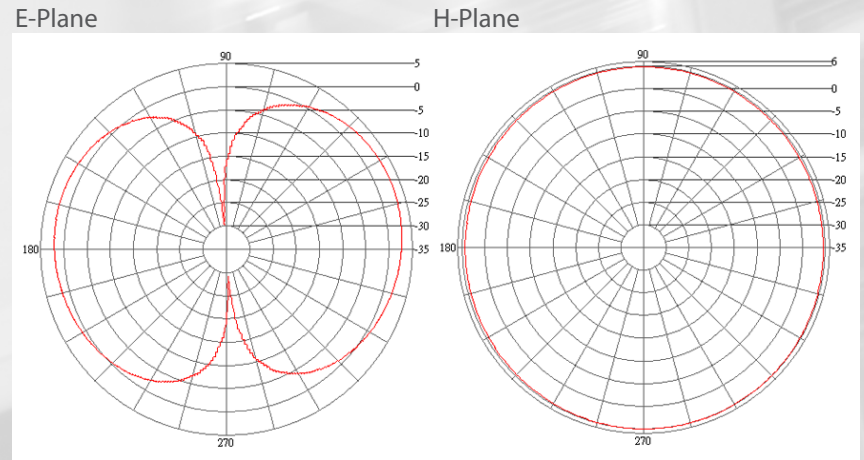


Introduction

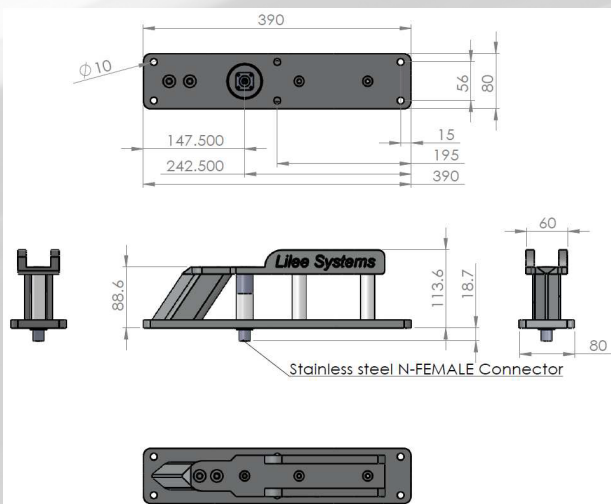
The TransAir 220 MHz 3 dBi Pifa antenna is specifically designed for use with the Lilee Systems TransAir PTC Locomotive Radio in Positive Train Control (PTC) deployments for freight and commuter rail.

The TransAir 220 MHz antenna's rugged construction provides increased reliability and ensures long life in extreme environmental conditions encountered in railroad applications. In addition, the TransAir 220 MHz antenna's aluminum construction protects against corrosion to withstand the harsh chemicals used on the exterior of the locomotive.

Radiation Pattern (220 MHz)



Mechanical Drawing



Specifications

	210 MHz		220 MHz		230 MHz	
	E-plane	H-plane	E-plane	H-plane	E-plane	H-plane
Max Gain (dBi)	0.83	2.79	3.2	5.02	2.73	3.78
Max Gain@Angle (degree)	159	225	21	286	0	308
Min Gain (dBi)	-29.95	1.43	-29.72	4.27	-31.06	2.05
Min Gain@Angle (degree)	88	13	95	173	92	179
Average Gain (dBi)	-2.02	2.33	-0.01	4.68	-3.37	3.1
-3 dB Angle L (degree)	223.6	223.4	60.75	285.3	51.75	307.3
-3 dB Angle R (degree)	121.6	223.5	325.8	285.4	305.8	307.4
Half-Power Beam Width	102	.1	94.95	0.1	105.95	0.1
Front-to-back Ratio (dBi)	1.7	1.01	1.64	0.25	1.27	1.08
Frequency Range	210 - 230 MHz					
Power Rating	300 W					
Pattern	Omni-directional					
Connector	N-Type Female Connector					
Material	Aluminum					
Dimensions (H x W x L)	113.6 cm x 80 cm x 390 cm (4.47 in x 3.15 in x 15.35 in)					
Weight						
Mounting	Six mounting holes					



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