

Heavy-Duty Flexible Antenna

The PFP23758 heavy-duty mobile antenna is feature in a rugged, flexible design that provides long lasting performance and reliability under very extreme environmental conditions.

Features

- Ground plane independent for reliable performance and added installation flexibility
- Heavy-duty, flexible radome design absorbs shock impact for applications requiring a ruggedized antenna solution
- Wideband coverage: ready to use without added field tuning
- UV-stable polyurethane housing withstands severe installation applications. This housing makes the antenna ideal for vehicular installations exposed to extreme temperatures and high vibration conditions, including construction trucks, agriculture tractors and mining vehicles



PFP23758

STANDARD CONFIGURATION

Model	Connector	Mount
PFP23758	TNC Plug (Male)	Direct mount only

ELECTRICAL SPECIFICATIONS

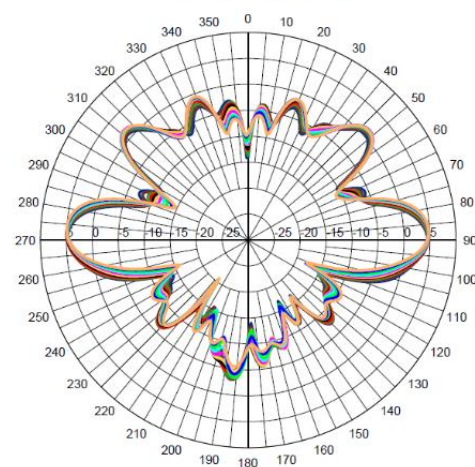
Model	Frequency Range	Max Gain	VSWR	Nominal Impedance	Maximum Power	Polarization
PFP23758	2400-2500 MHz	5.45 dBi	< 2.0:1	50 ohms	5 watts	Vertical, linear

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

Model	Dimensions	Housing Material	Ingress Protection	Temperature Range
PFP23758	13.2 L x 0.62 OD in (335 x 15.70 mm)	Black, UV-stable polyurethane	IP67	-40°C to +85°C

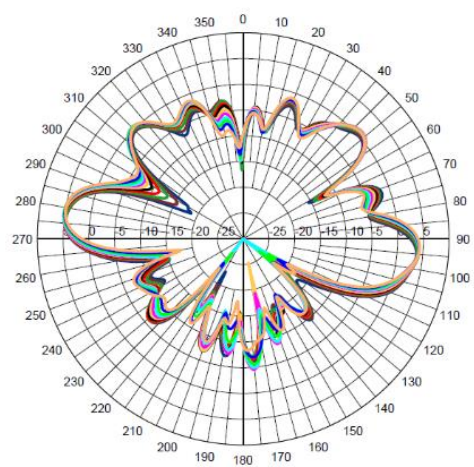
Radiation Patterns

Phi 0 (Z-X plane)



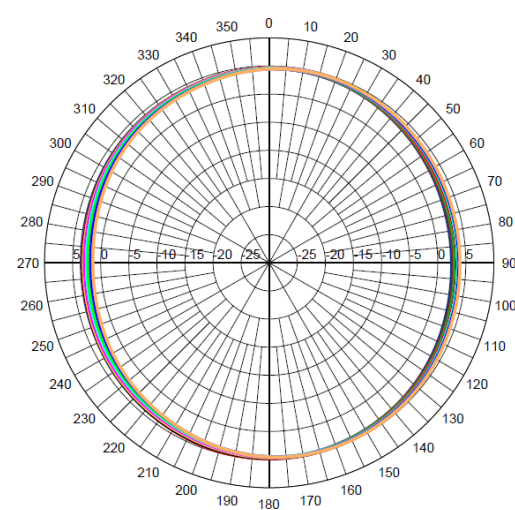
Frequency(MHz)	Max Gain(dBi)	Beamwidth(deg)	Front/Back(dB)
2400 MHz	4.70	18.8	-3.6
2410 MHz	4.78	19.0	-2.6
2420 MHz	4.88	18.9	-3.0
2430 MHz	4.97	18.9	-2.5
2440 MHz	4.98	18.6	-2.6
2450 MHz	4.90	18.3	-1.9
2460 MHz	4.86	18.1	-1.6
2470 MHz	4.76	18.1	-1.2
2480 MHz	4.82	18.1	-0.8
2490 MHz	4.86	18.1	-0.2
2500 MHz	4.96	18.2	-0.3

Phi 90 (Z-Y Plane)



Frequency(MHz)	Max Gain(dBi)	Beamwidth(deg)	Front/Back(dB)
2400 MHz	4.73	18.3	-3.6
2410 MHz	4.69	18.2	-2.6
2420 MHz	4.73	18.2	-3.0
2430 MHz	5.02	18.0	-2.5
2440 MHz	5.08	18.0	-2.6
2450 MHz	5.10	18.1	-1.9
2460 MHz	5.22	17.9	-1.6
2470 MHz	5.16	17.7	-1.2
2480 MHz	5.20	17.6	-0.8
2490 MHz	5.06	17.4	-0.2
2500 MHz	4.96	17.5	-0.3

Theta 90 (X-Y Plane)



Frequency(MHz)	Max Gain(dBi)	Beamwidth(deg)	Front/Back(dB)
2400 MHz	4.68	360.0	-0.1
2410 MHz	4.73	360.0	-0.2
2420 MHz	4.81	360.0	-0.2
2430 MHz	4.87	360.0	-0.2
2440 MHz	4.83	360.0	-0.1
2450 MHz	4.76	360.0	0.0
2460 MHz	4.71	360.0	0.1
2470 MHz	4.65	360.0	0.1
2480 MHz	4.72	360.0	0.0
2490 MHz	4.70	360.0	-0.0
2500 MHz	4.80	360.0	-0.1