



50-500MHz & 700-2500MHz

- Connect a dual band antenna to two radios
- Connect a dual band radio with single feed to two single band antennas
- Effective port to port isolation

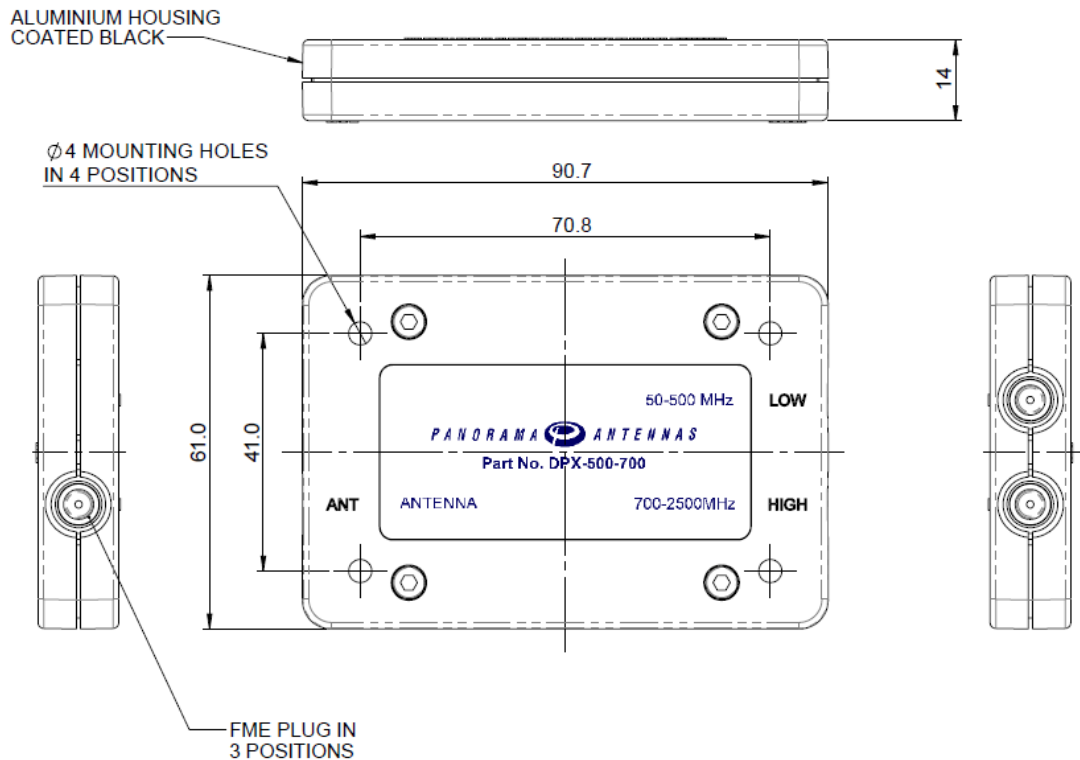
The DPX-500-700 provides the possibility to use a single dual or multiband antenna with two radios. This conserves valuable vehicle real estate and saves on antenna installation costs.

Alternatively, it allows the connection of a dual band radio, fitted with a single connector, to two separate single band antennas. The diplexer has low insertion loss and excellent port to port isolation to maintain good radio performance on each band.

The DPX-500-700 diplexer has a compact, durable housing, with integrated fme plug connectors, making it possible to locate in a vehicle headliner, adjacent to the antenna, if required.

Technical Drawing

DPX-500-700 Shown



Part No.

DPX-500-700

Electrical Data

Frequency Range (MHz)	VHF / UHF 700-2500MHz	50 - 500 700- 2500
Max. in-band insertion loss	VHF / UHF 700-2500MHz	< 0.75dB < 0.75dB
Min. alternate Band Rejection	VHF/UHF 700-2500MHz	>-40dB >-30dB
Typical VSWR		< 2:1
Min. port-to-port isolation		> 25dB
Maximum input power		50 Watts

Mechanical Data

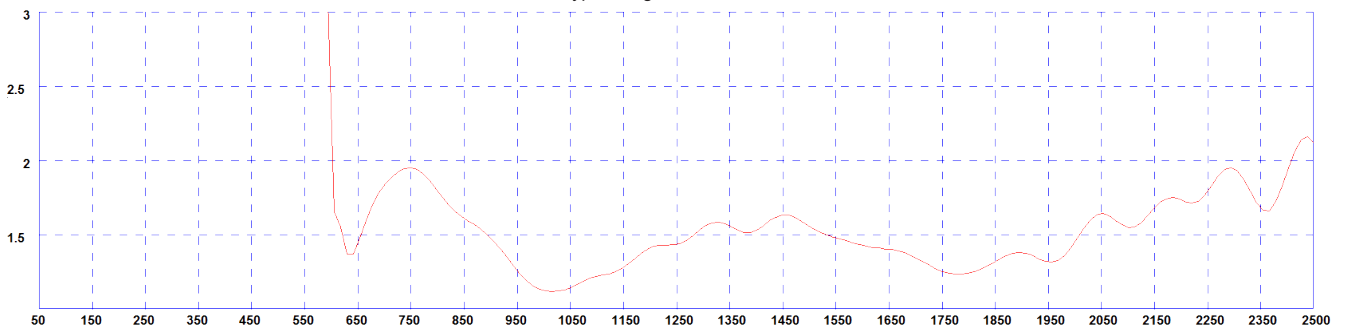
Dimensions (mm)	Length	91 (3.58")
	Width	61 (2.4")
	Thickness	14 (0.55")
Operating temp (°C)		-40° / +80°C (-40° / 176°F)
Material		Aluminium
Colour		Black
Termination		FME plugs on all ports

Mounting Data

Fixing	4 × Mounting holes
Hole diameter (mm)	4 (0.16")

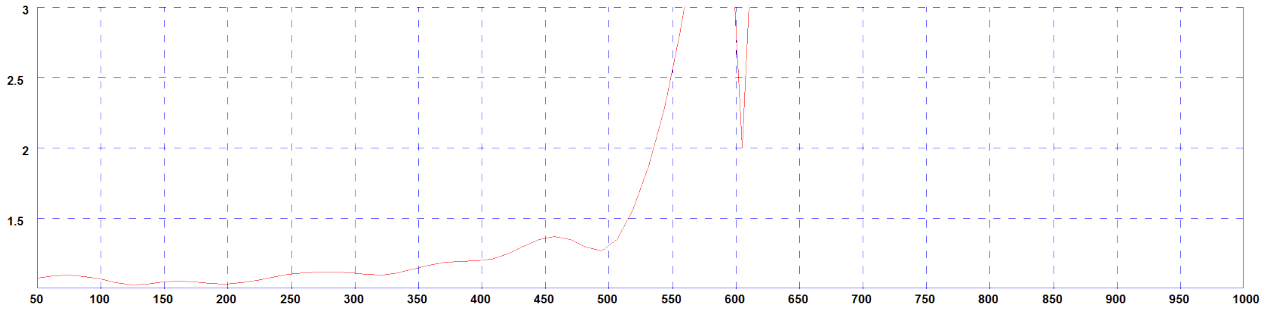
Electrical Data - Cell

Typical High Pass VSWR

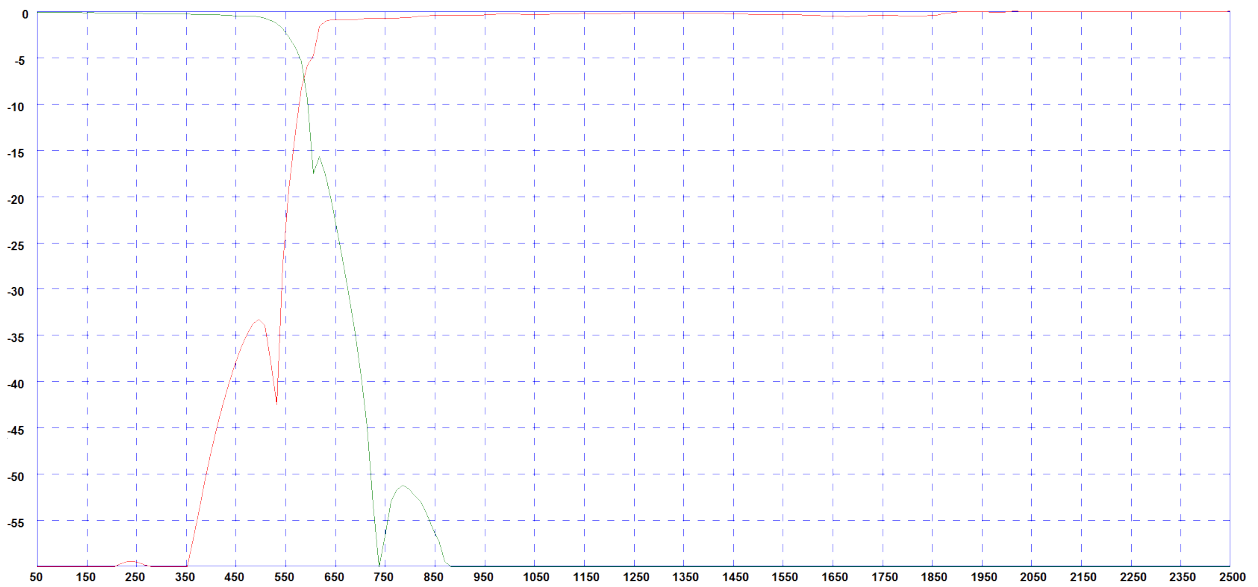


Electrical Data - Cell

Typical Low Pass VSWR



Typical Insertion Loss



Typical Port-to-Port Isolation

