

CONCEALFAB PIM MITIGATION PRODUCTS

At Kaelus, we understand the challenges posed by PIM issues in wireless networks. To address these challenges comprehensively, we have partnered with ConcealFab to offer a complete solution.

Our PIM Finder solution allows users to locate external PIM sources with precision, facilitating efficient troubleshooting of the antenna systems.

ConcealFab's PIM mitigation products offer unique benefits that complement our PIM Finder solution, enabling users to not only identify PIM sources but also take effective measures to mitigate them.

By combining Kaelus' PIM Finder solution with ConcealFab's PIM mitigation materials, users gain an unparalleled advantage in locating and mitigating PIM sources effectively.

These innovative solutions work in tandem to optimize RF system performance, improve network reliability, and ensure an exceptional end-user experience.



FEATURES

- **PIM Source:** ConcealFab's PIM Source Assembly serves as an invaluable tool for accurate PIM testing and troubleshooting. Optimized to generate maximum PIM in the 700 MHz band, this diode-based PIM source allows users to validate the effectiveness of their PIM mitigation efforts. Additionally, the integrated "PIM Blanket" shielded pouch suppresses PIM when not in use, ensuring precise and clean testing conditions.
- **PIM Blanket:** As a temporary RF barrier, the PIM Blanket plays a crucial role in isolating PIM sources. When deployed on rooftops, in front of, and behind base station antennas, it effectively reduces PIM from external sources by >30 dB. Beyond pinpointing external PIM locations, the PIM Blanket provides vital insights into the potential improvement achievable with permanent repairs.
- **PIM Foil:** This lightweight and flexible RF barrier is designed for temporary deployment in front of and behind base station antennas. By utilizing PIM Foil, users can effectively isolate sources of PIM, resulting in a significant reduction of >30 dB when placed over external PIM sources. The PIM Foil empowers users to validate the potential improvement achievable with permanent repairs.
- **PIM Tape:** Specially designed to complement PIM Foil and PIM Blanket installations, PIM Tape offers reliable adhesion to ensure secure and long-lasting setups. It becomes an indispensable accessory when deploying PIM Foil in windy areas, maintaining the integrity of the PIM mitigation solution.

PIM SOURCE

KEY SPECIFICATIONS	
Frequency range	698-788MHz
PIM Performance	IM3>-50dBm (PIM Source Exposed) IM3<-100dBm (PIM source inside the shielded pouch) When tested in accordance with IEC 62037-8, near field test, 2x 20W test tones, static test, vertical orientation
ORDERING INFORMATION	
Part number	OEM125772

PIM BLANKET

KEY SPECIFICATIONS					
PIM Performance	IM3<-120dBm When tested in accordance with IEC 62037-8, far field test, 2x 20W test tones, static test, veritcal orientation				
RF Attenuation	>10dB (600MHz to 2GHz) >20dB (>2GHz)				
ORDERING INFORMATION					
Part number	Length	Width	Tie Down Loops	Shipping Weight	Shipping Dimensions
OEM125762	1.52m 60inch	0.75m 30inch	4	2kg 4.4lbs	45.7 x 14 x 14 cm 18 x 5.5 x 5.5 inch
OEM125764	1.52m 60inch	1.52m 60inch	4	3.6kg 8lbs	45.7 x 17.8 x 17.8 cm 18 x 7 x 7 inch
OEM125766	3.05m 120inch	1.52m 60inch	6	7kg 15.5lbs	49.5 x 20.3 x 20.3 cm 19.5 x 8 x 8 inch

PIM FOIL

APPLICATION				
Overlap rows of PIM Foil by 3 inches when covering large areas.				
A dashed line printed on the 36-inch wide foil provides a guide for overlap.				
Tape PIM Foil in place to prevent movement due to wind. Surfaces must be clean and free of dust and dirt to improve tape adhesion.				
Tape adjacent rows of PIM Foil together as required to prevent separation.				
Additional ballast may be required, in addition to tape, to prevent lifting in wind.				
Wind Speed Limitation: Not recommended for wind speeds exceeding 10 mph (1.6 kph). For higher wind applications, consider using PIM Blankets.				
For permanent repairs, PIM Foil must be covered by UV stable protective layer such as Vinyl tape or TPO / EPDM roofing membrane				
KEY SPECIFICATIONS				
PIM Performance	IM3<-120dBm When tested in accordance with IEC 62037-8, far field test, 2x 20W test tones, static test, vertical orientation			
RF Attenuation	>10dB (600MHz to 2GHz) >20dB (>2GHz)			
ORDERING INFORMATION				
Part number	Roll Length	Roll Width	Shipping Weight	Shipping Dimensions
OEM125774	30.5m 100FT	45.7cm 18inch	2.1kg 4.7lbs	53.5 x 11.5 x 11.5 cm 21 x 4.5 x 4.5 inch
OEM125776	30.5m 100FT	91.4cm 36inch	4.1kg 9lbs	99. x 11.5 x 11.5 cm 39 x 4.5 x 4.5 inch

PIM TAPE

ORDERING INFORMATION	
Part number	Roll size
OEM125768	6-inch x 25FT roll
OEM125770	12-inch x 25FT roll

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PIM SOURCE



PIM BLANKET



PIM FOIL