

SPECIFICATIONS

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| General | ConcealFab's patent pending 900633-01 filter kit enables 700 MHz two-port testing using portable PIM test equipment from Kaelus or Anritsu. The kit includes the low PIM filter required to split the F1 and F2 test tones. For a complete kit of RF components required to perform two-port PIM testing, reference kit 900633-02. |
| Contents | <ul style="list-style-type: none"> • Filter • Soft case for filter • Transit case for kit • 2x 7-16 DIN male – 7-16 DIN female adapters, (connector savers) • Adapter case • Cleaning kit + case • 2x Lanyards • External PIM source |

FILTER SPECIFICATIONS

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| IM3, common port | <-125 dBm with 2x 20W test tones |
| IM3, radiated | <-100 dBm, near field test, static, 2x 20W test tones, 700 MHz band in accordance with IEC 62037-8 |
| Common port passband | 698 MHz to 806 MHz |
| “High” port passband | 741 MHz to 806 MHz |
| “Low” port passband | 698 MHz to 734.5 MHz |
| “High” to “Low” port Isolation | >40 dB |
| Insertion Loss | 1.0 dB maximum per path |
| Return Loss | 17 dB min. (All ports) |
| Power Handling | 2x 46 dBm CW tones into Common port |
| RF connectors | 3x 7-16 DIN Female |
| Operating temperature | -10°C to +40°C |

ACCESSORY SPECIFICATIONS

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|--|----------------------------------|
| Connector savers | IM3 <-125 dBm with 2x 20W |
| Kit Dimensions (Hard case outside dimensions) | 19.8-inch x 15.8-inch x 7.4-inch |
| Kit Weight | 22 lbs. |

NOTICE: In order to maintain low PIM performance test technicians must be very careful not to damage the common port connector. The filter is supplied with a padded soft case for protection while testing and a hard case for protection during transit. The filter ships with a connector saver installed on the common port plus a spare connector saver. Do not use the filter without a connector saver installed! Damaged input connectors may not be able to be repaired.



PORT CONFIGURATION



TEST CONFIGURATION

Additional equipment required to perform two-port PIM testing:

- PIM Analyzer (Kaelus iPA-0707A or Anritsu MW82119A or B, Option 700)
- 1x Low PIM test cable (PIM analyzer to Filter), IM3 <-125 dBm
- 2x Low PIM test cables (Filter to antenna ports), IM3 <-100 dBm
- Low PIM RF adapters (as required to connect to 7-16 DIN and 4.3-10 ports)
- 2x Low PIM loads (7-16 DIN female) to connect to filter output ports

