# RX Multicoupler: 90-Series (UHF, 700-900 MHz)

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The 90-Series RX Multicoupler features on board pass-band selective filtering, LNA amplification, plug-and-play technology and is expandable and reconfigurable. This series is designed to offer engineers and installers many options when designing or up-grading a site. Please refer to nomenclature and data sheet to determine the best solutions for your site based on RX to TX antenna separation, RX to TX guard band.

| Electrical Specifications | 9X-FF-PPXX |
|---|---|
| Frequency Range, MHz | See ordering information |
| Number of Channels | 2 to 16 |
| UHF Isolation (Carrier Suppression), dB | (A) 40dB (B) 60dB |
| 700-900MHz Isolation (Carrier Suppression), dB | 80+ dB see curves |
| Filter Insertion Loss | See response curves |
| RX input Return Loss, dB | 1.40:1 min |
| Pre-Amplifier specifications: 2 to 8 port | |
| Gain 406-512 MHz | 18 dB typical |
| Noise Figure 406-512 MHz | 1.2 dB typical |
| 1 dB Compression Point | 21 dB min |
| 3rd Order Intercept Point | 38 dBm min |
| DC voltage / Current draw | 12-28 VDC / 85mA |
| Gain 700-900 MHz | 15 dB typical |
| Noise Figure 700-900 MHz | 1.0 dB typical |
| 1 dB Compression Point | 21 dB min |
| 3rd Order Intercept Point | 38 dBm min |
| DC voltage / Current draw | 12-28 VDC / 85mA |
| Mechanical Specifications | |
| Construction / Finish | Aluminum / Gold / Black |
| Input Connector | N-Female |
| Mounting | EIA standard 19” |
| Temperature range, °C | -30 to +60 |
| Dimensions | |
| Width, in (mm) | 19 (483) |
| Depth, in (mm) | 16.5 (419) |
| Height, in (mm) single passband | UHF 5.25 (134) |

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88, INDUSTRIEL, BOUCHERVILLE, QUEBEC, CANADA, J4B 2X2 ● TEL : (450) 641-1454 ● (800) 603-1454 ● (800) 377-3531 QUE
FAX : (450-641-4616 ● (800) 554-1033 ● E-Mail : info@comprodcom.com ● Web : comprodcom.com

# 9X-FF-PPXX
# 380-512; 746-960 MHz

| | |
|---|---|
| Series 90 | |
| # of Pass windows 1, 2, 3 | |

| Frequency | |
|---|---|
| 38 | 380-400 MHz |
| 40 | 406-430 MHz |
| 43 | 430-450 MHz |
| 45 | 450-470 MHz |
| 47 | 470-512 MHz |
| 76 | 794-806 MHz |
| 85 | 806-824 MHz |
| 93 | 896-901 MHz |

| # of output ports |
|---|
| 2, 4, 8, 16 |

| Connector style (Output) | |
|---|---|
| N | N female |
| B | BNC female |
| | |
| | |

| RX window bandwidth (range) | |
|---|---|
| 1 | 1 MHz (coming soon) |
| 2 | 2 MHz (450-470) |
| 3 | 3 MHz (450-470 / 794-901) |
| 4-5 | 4 MHz (450-470)<br>5 MHz (380-400) |
| 6 | 6 MHz (794-901) |
| 7-8-9 | 12 MHz (700-824)<br>18 MHz (806-824)<br>30 MHz (794-824) |

| 9 | X | F | F | P | P | X | X |
|---|---|---|---|---|---|---|---|

**EXAMPLE MODEL# 91-45-4N3A**

(RX Multicoupler, 1 pass window, UHF 450-470MHz, 4 port output, N-fml, 3 MHz pass window)

**EXAMPLE MODEL# 92-45-8B2A**

(RX Multicoupler, 2 pass windows, UHF 450-470MHz, 8 port output, BNC-fml, 3 MHz pass windows)

**Comprod is with you, to support you from design to deployment and future expansion**

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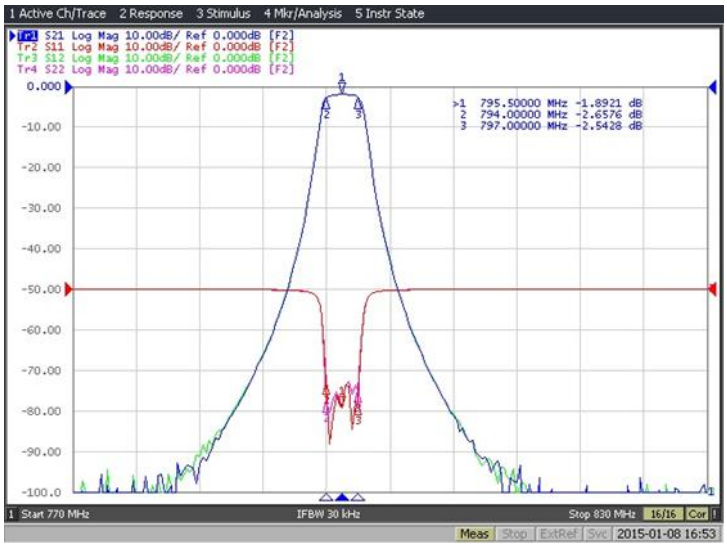
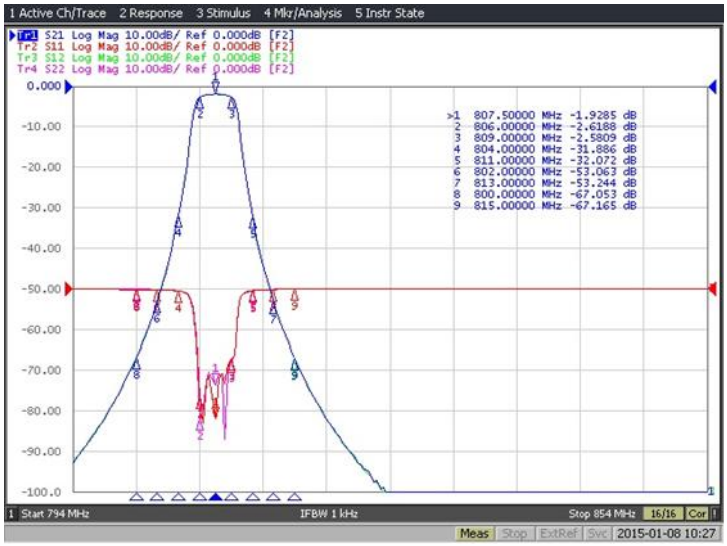
# Example Curves 700-900 MHz 3, 6, 10, 12, 18 MHz Band-width Filtering

700 MHz Pass:794-797MHz (3MHz)




700 MHz Pass:794-800MHz (6MHz) Rej:787 (4G Cell)

800 MHz Pass: 806-809MHz (3MHz) Public Safety




800 MHz Pass: 806-812MHz (6MHz)

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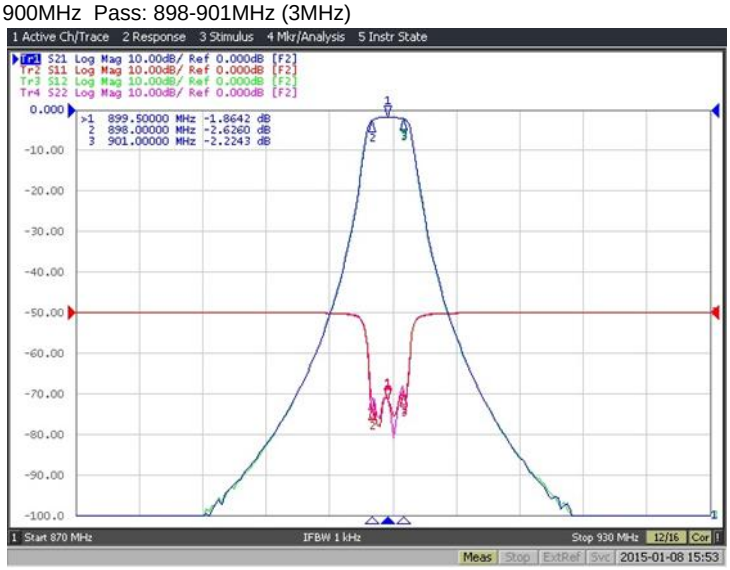
# 9X-FF-PPXX
# 380-512; 746-960 MHz

900MHz Pass: 898-901MHz (3MHz)




900MHz Pass: 896-902MHz (6MHz)

700MHz Pass: 794-804MHz (10MHz) Rej: 787 (4G Cell)

700MHz Pass 794-806MHz (12MHz) Rej: 787 (4G Cell)

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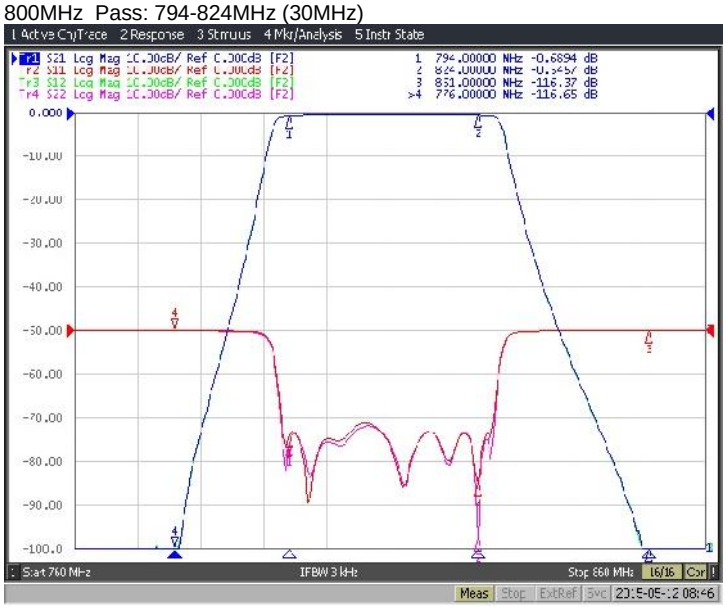
# 9X-FF-PPXX
# 380-512; 746-960 MHz

800MHz Pass: 809-819MHz (10MHz)

800MHz Pass: 809-821MHz (12MHz)

800MHz Pass: 806-824MHz (18MHz)

800MHz Pass: 794-824MHz (30MHz)





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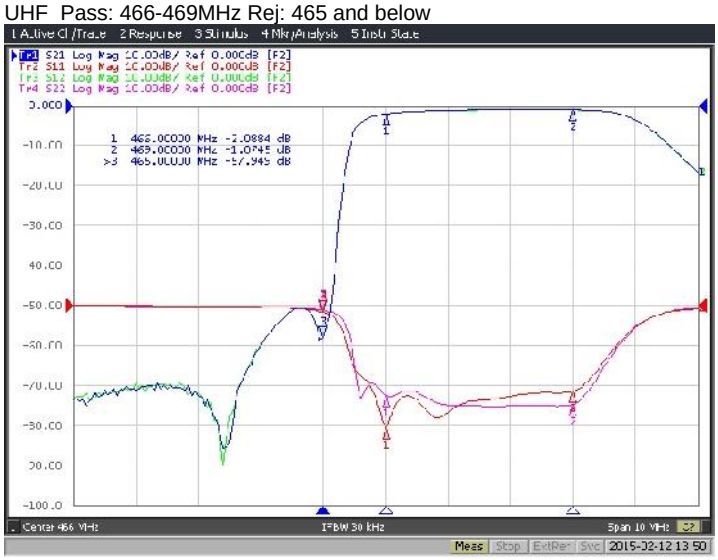
UHF Pass: 466-469MHz Rej: 465 and below




UHF Pass: 457-460MHz Rej: 455 and below