PIM Master™ Equipment Verification Process

Anritsu

PIM Standard values (See other side)		PIM Master Option	700L	701L 702L	700U	701U 702U	850	800	900 902	180	192, 193 or 194	190, 193 or 194	210	260
		F1	734 MHz	768 MHz	734 MHz	768 MHz	869 MHz	791 MHz	935 MHz	1805 MHz	1930 MHz	1930 MHz	2110 MHz	2620 MHz
		F2	757 MHz	803 MHz	757 MHz	803 MHz	894 MHz	821 MHz	960 MHz	1880 MHz	2130 MHz	1990 MHz	2170 MHz	2690 MHz
Part Number	**Description**	**IM3 Frequency**	**711 MHz**	**733 MHz**	**780 MHz**	**838 MHz**	**844 MHz**	**851 MHz**	**910 MHz**	**1730 MHz**	**1730 MHz**	**1870 MHz**	**2050 MHz**	**2550 MHz**
1091-403-R	PIM STD, –80dBm @ 910 MHz	Typical IM3 @ 2x 20W	–81 dBm / –124 dBc	–81 dBm / –124 dBc	–80 dBm / –123 dBc	–80 dBm / –123 dBc	–80 dBm / –123 dBc	–80 dBm / –123 dBc	–80 dBm / –123 dBc	–74 dBm / –117 dBc	–74 dBm / –117 dBc	–72 dBm / –115 dBc	–72 dBm / –115 dBc	N/A
1091-446-R	PIM STD, –80dBm @ 1730 MHz	Typical IM3 @ 2x 20W	–87 dBm / –130 dBc	–88 dBm / –131 dBc	–90 dBm / –133 dBc	–89 dBm / –132 dBc	–85 dBm / –128 dBc	–90 dBm / –133 dBc	–85 dBm / –128 dBc	–80 dBm / –123 dBc	–80 dBm / –123 dBc	–78 dBm / –121 dBc	–77 dBm / –120 dBc	–73 dBm / –116 dBc
1091-390-R	PIM STD, –80dBm @ 1775 MHz	Typical IM3 @ 2x 20W	–87 dBm / –130 dBc	–87 dBm / –130 dBc	–86 dBm / –129 dBc	–86 dBm / –129 dBc	–86 dBm / –129 dBc	–86 dBm / –129 dBc	–86 dBm / –129 dBc	–80 dBm / –123 dBc	–80 dBm / –123 dBc	–78 dBm / –121 dBc	–78 dBm / –121 dBc	–75 dBm / –118 dBc

Note: Typical values shown. PIM standards can vary ±3 dB due to manufacturing variation.
Record the starting value of your PIM standard and use that value for test equipment verification.

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1. Clean	2. Calibrate	3. Verify Residual PIM	4. Verify PIM Standard
• Clean all RF connectors to remove metal flakes • Use compressed air or alcohol wipes • Do not scratch connector surfaces	• Allow equipment to warm up 10 minutes • Press <Shift> <2> on keypad • Follow on-screen instructions to calibrate instrument Note 1: Okay to use 910 MHz, 1730 MHz, or 1775 MHz PIM standard for this step. Note 2: Okay to calibrate on instrument or at end of test cable	• Power = 43 dBm (20 W) • Intermod Order = 3rd • Attach test cable to analyzer , if not already connected • Attach low PIM termination to end of test cable • Perform PIM vs. Time test • Tap/flex test cable connectors during the test • Verify Peak PIM level is at least 10 dB below DUT Pass/Fail level • **Save this result to include with report**	• Attach PIM standard and Low PIM termination Note: Okay to use 910 MHz, 1730 MHz, or 1775 MHz PIM standard for this step • Perform PIM vs. Time test • Verify Peak PIM value is within ± 3 dB of expected value (see other side) • **Save this result to include with report**

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