



# PLANAR MONOLITHICS INDUSTRIES, INC.

**A TRADITION OF EXCELLENCE SINCE 1989**  
**ISO9001-2008 CERTIFIED**

## Coaxial In-Line RF & Microwave Filters

PMI offers various models of coaxial In-line RF filters. All models are offered in our standard SMA tubular package which measures 1.31 inches in length. These filters are an excellent choice when signal filtering is required in a small space. Standard models are listed below, but other specifications are available. Please contact us to discuss your specific set of requirements.



### Band Pass Filters:

Model Number	Center Frequency, Fo	Bandwidth	Insertion Loss @ Fo	Rejection	Pass Band VSWR	Impedance	Applications
ILF-1227-12-BP	1227MHz	12MHz	2.5dB	-30dB @ 1160MHz -30dB @ 1294MHz	1.5:1	50 Ohms	GPS L2
ILF-1575-15-BP	1575MHz	15MHz	2.5dB	-30dB @ 1459MHz -30dB @ 1691MHz	1.5:1	50 Ohms	GPS L1
ILF-1900-27-BP	1900MHz	27MHz	2.0dB	-38dB @ 1405 to 1440MHz -10dB @ 1649 to 1680MHz -22dB @ 3786 to 3840MHz -20dB @ 5679 to 5760MHz	1.8:1	50 Ohms	PCS Communications Test Equipment
ILF-2450-100-BP	2450MHz	100MHz	2.0dB	-30dB @ 880 to 915MHz -30dB @ 1710 to 1785MHz -25dB @ 1850 to 1910MHz -25dB @ 4800 to 5000MHz -15dB @ 7200 to 7500MHz	1.8:1	50 Ohms	Point-to-Point Links Wireless Systems SATCOM
ILF-5500-725-BP	5500MHz	725MHz	2.5dB	-30dB @ 500 to 4000MHz -20dB @ 4600MHz -15dB @ 10.3 to 11.8GHz	1.8:1	50 Ohms	Point-to-Point Links Wireless Systems SATCOM

### Low Pass Filters:

Model Number	Passband	Cut-Off Frequency	Passband Insertion Loss	Rejection	Pass Band VSWR	Impedance	Applications
ILF-500-LP	DC to 500MHz	500MHz	1.0dB	-9dB @ 824 to 960MHz -25dB @ 1.71 to 1.99GHz -25dB @ 2.40 to 4.00GHz	1.8:1	50 Ohms	Cellular/3G/WiMAX/4G Repeaters Public Safety Radio
ILF-915-LP	500 to 915MHz	915MHz	1.0dB	-10dB @ 1500MHz -20dB @ 1600 to 1800MHz -15dB @ 2000 to 3000MHz	1.8:1	50 Ohms	RFID
ILF-1450-LP	500 to 1450MHz	1450MHz	2.75dB	-25dB @ 1700MHz -35dB @ 1800 to 2000MHz -20dB @ 2000 to 3000MHz	1.8:1	50 Ohms	GPS Satellite Navigation
ILF-1910-LP	1500 to 1910MHz	1910MHz	1.0dB	-26dB @ 3420 to 3570MHz -21dB @ 3700 to 3820MHz -21dB @ 5130 to 5730MHz	1.8:1	50 Ohms	Cellular Repeaters Multi-Channel Applications
ILF-2400-LP	2000 to 2500MHz	2500MHz	0.8dB	-21dB @ 4800 to 5000MHz -21dB @ 7200 to 7500MHz	1.8:1	50 Ohms	Point-to-Point Links Wireless Systems SATCOM
ILF-2700-LP	500 to 2700MHz	2700MHz	0.8dB	-15dB @ 4000MHz -35dB @ 4400 to 6000MHz -30dB @ 6000 to 8500MHz	1.8:1	50 Ohms	Wireless Systems WiMAX
ILF-3800-LP	3000 to 3800MHz	2800MHz	0.8dB	-15dB @ 6100MHz -35dB @ 6600 to 8000MHz -30dB @ 8000 to 12,000MHz	1.8:1	50 Ohms	Wireless Systems WiMAX
ILF-5875-LP	4000 to 5875MHz	5875MHz	1.0dB	-8dB @ 8.0GHz -25dB @ 9.0 to 13.0GHz -18dB @ 13.0 to 18.0GHz	1.8:1	50 Ohms	Wireless Systems WiMAX

### High Pass Filters:

Model Number	Passband	Cut-Off Frequency	Passband Insertion Loss	Rejection	Pass Band VSWR	Impedance	Applications
ILF-1650-HP	1650 to 2300MHz	1650MHz	2.5dB	-25dB @ 500 to 1450MHz	1.8:1	50 Ohms	Cellular Repeaters Multi-Channel Applications
ILF-2400-HP	2400 to 3000MHz	2400MHz	1.25dB	-25dB @ 875 to 920MHz -20dB @ 1705 to 1790MHz -18dB @ 1845 to 1915MHz	1.8:1	50 Ohms	Point-to-Point Links Wireless Systems SATCOM
ILF-3100-HP	3100 to 7200MHz	3100MHz	2.75dB	-30dB @ 500 to 2600MHz	1.8:1	50 Ohms	Wireless Systems WiMAX

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