



# Triplexer Filter BK-30 series

**GSM-900, GSM-1800, UMTS-WCDMA Triplexer  
880 - 960, 1710 - 1880, 1920 - 2170 MHz**

- Combiner for Feeder Sharing
- 30 dB Input Isolation
- Minimal RF Insertion Loss
- 10 W/port Avg Power Rating
- Rugged, High Reliability
- SMA, N or QMA Connectors
- Low Passive IM, PIM
- Low Cost Design

Model No.	Connectors	Weight, nom.
BK-30F	SMA female	31 oz (0.87 kg)
BK-30N	N female	32 oz (0.90 kg)
BK-30Q	QMA female	31 oz (0.87 kg)

Microlab/FXR Model BK-30 series is a three input Triplexer which allows combination and separation of the signals in each wireless band. To minimize band inter-reaction, the inputs are well isolated and have minimal insertion loss over their respective frequency bands.

The Triplexer has been designed using passive, proprietary techniques which minimizes cost and size. Through holes are provided for simple mounting to a surface or cable tray using SMA, N or QMA connectors. (8/05)

**Frequency Bands:**

<b>Port 1: GSM-1800</b>	1,710 to 1,880 MHz
<b>Port 2: GSM-900</b>	880 to 960 MHz
<b>Port 3: UMTS</b>	1,920 to 2,170 MHz
<b>Common Port:</b>	880 to 2170 MHz
<b>Input Isolation:</b>	>30 dB in band
<b>Return Loss:</b>	>12 dB, all ports
<b>DC Continuity:</b>	Output to Port 1 only
<b>Passband Loss:</b>	<1.3 dB, typically <1 dB
<b>Input Power Rating:</b>	10W/input avg., 3 kW peak
<b>Impedance:</b>	50 $\Omega$ nominal
<b>Intermod. (PIM):</b>	<-140 dBc (with 2 x +40dBm)
<b>Environment:</b>	0 to +50°C, IP65
<b>Finish: Connectors:</b>	Silver plated, N
<b>Housing:</b>	Passivated Aluminum

