MICROLAB / FXR — Low Pass Filter

LB-C07/C08/C14

High Power, Low Loss Rod and Bead Design
> 55 dB Suppression of 2nd Harmonic

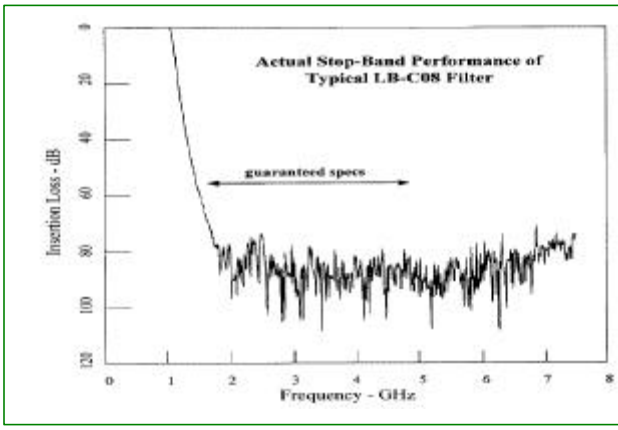
- **Ideal for NMT, Cellular, GSM and PCS/DCS Base Stations**
- **500 Watt Average Power Rating**
- **Reliable Rod and Bead Design**
- **Minimal RF Insertion Loss**
- **Low Cost Design**
- **N Connectors Standard**


LB-C08 Cellular Harmonic Suppressor

Microlab/FXR Models LB-C07/CO8/C14 are designed to suppress the harmonics of the transmitted base station signal. These harmonics are often generated in the final isolator.

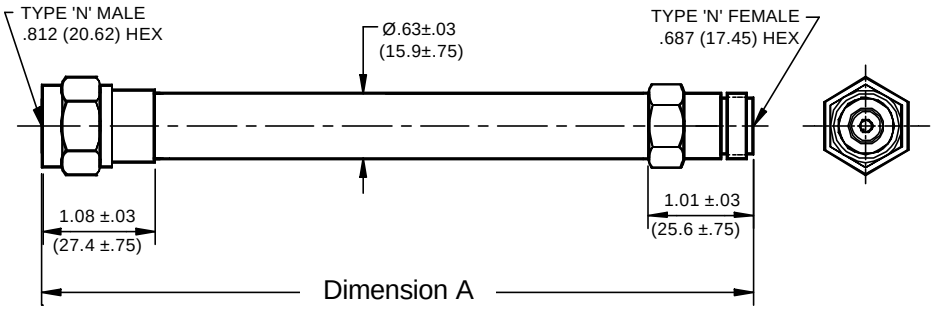
For example the LB-C08 design passes the cellular band (840 - 960 MHz) almost without loss, while suppressing all harmonics out to beyond 4,800 MHz by at least 55 dB. When compared to lumped element construction, the single piece rod and bead filter has far fewer solder joints, is better supported, and operates cooler with a better VSWR. Options for different connectors are available on request. (6/00)

Model	Pass Band, PB	PB VSWR	PB Insertion Loss	Stop Band, SB	SB Loss
LB-C07	403 – 520 MHz	1.30:1 max	0.2 dB max.	806 – 3,600 MHz	55 dB min.
LB-C08	840 – 960 MHz	1.25:1 max.	0.2 dB max.	1,680 – 4,800 MHz	55 dB min.
LB-C14	1700 – 2000 MHz	1.25:1 max.	0.2 dB max.	3,400 – 8,000 MHz	55 dB max.



Specifications

Intermodulation:	-130 dBc max.
Power Rating:	
LB-C07 & C08	500 W average 3 kW Peak
LB-C14	300W average 3 kW peak
Temperature:	-35°C to +75°C
Connectors:	N type standard
Connector Finish:	Silverplate per QQ-S-365
Housing Finish:	Iridite per MIL-C-5541 For indoor & outdoor



Dimensions	
Model	A ±.06 (±1.5)
LB-C07*	11.53 (292.1)
LB-C08	6.86 (174.2)
LB-C14	4.63 (117.6)

*LB-C07 uses 2 female N

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