



# NEW PRODUCT ANNOUNCEMENT

## 973 Medium and 970 High Power HD Radio™ Mask Filter

ERI's 973-8-iBOX and 970-8-iBOX constant impedance FM mask filters are modular in construction and are designed to provide FCC mask compliance for FM radio station implementing the higher -10dBc power levels for HD Radio, when authorized by the FCC.

As with all ERI FM filter products, these products are temperature compensated to enable the system to meet product specifications at a cold start as well as at normal operating temperature. The individual resonant cavities in the unit are made almost entirely of copper, with brass fittings. Any brass fittings which are in an RF current path are silver plated.

The filter module is designed to be floor mounted and is optionally available fully assembled within a mobile support frame to facilitate ease of installation. Adjustable standoffs are optionally available for uneven floors, as well as vertical mounting frames, and mezzanine supports.



### Model 973-8-iBOX™ Medium Power HD Radio™ Mask Filter

Model:	973-8-iBOX
Filter Type:	Sharply Tuned Band Pass Constant Impedance
VSWR1:	<1.1:1 at ±200 kHz
Power Handling Capability:	60 kW analog, plus 6 kW digital (with forced air cooling)
Frequency:	Any single FM Broadcast Channel (88 to 108MHz)
Group Delay:	<75ns Overall Variation, Carrier ± 150kHz
Frequency:	All FM Broadcast Channels (88 to 108MHz)
RF Input Connector:	3-1/8-inch, 4-1/16-inch, or 6-1/8-inch 50 ohms EIA (flanged)
RF Output Connector:	3-1/8-inch, 4-1/16-inch, or 6-1/8-inch 50 ohms EIA (flanged)
Insertion Loss:	<0.35 dB
Group Delay:	<75 nsec overall variation ±200 kHz
Combiner Module Size and Weight:	50-inches H x 53-inches W x 146-inches L, 1900 lbs.

1) When terminated in 50-Ohm resistive load.

### Model 970-8-iBOX™ Medium Power HD Radio™ Mask Filter

Model:	970-8-iBOX
Filter Type:	Sharply Tuned Band Pass Constant Impedance
VSWR1:	<1.1:1 at ±200 kHz
Power Handling Capability:	15 kW analog, plus 1.5 kW digital (convection cooled)
Frequency:	Any single FM Broadcast Channel (88 to 108MHz)
Group Delay:	<75ns Overall Variation, Carrier ± 150kHz
Frequency:	All FM Broadcast Channels (88 to 108MHz)
RF Input Connector:	1-5/8-inch or 3-1/8-inch 50 ohms EIA (flanged)
RF Output Connector:	1-5/8-inch or 3-1/8-inch EIA 50 ohms EIA (flanged)
Insertion Loss:	<0.35 dB
Group Delay:	<75 nsec overall variation ±200 kHz
Combiner Module Size and Weight:	48-inches H x 46-inches W x 112-inches L, 1100 lbs.

1) When terminated in 50-Ohm resistive load.

HD Radio is a trademark of iBiquity Digital Corporation