KINTRONIC LABS

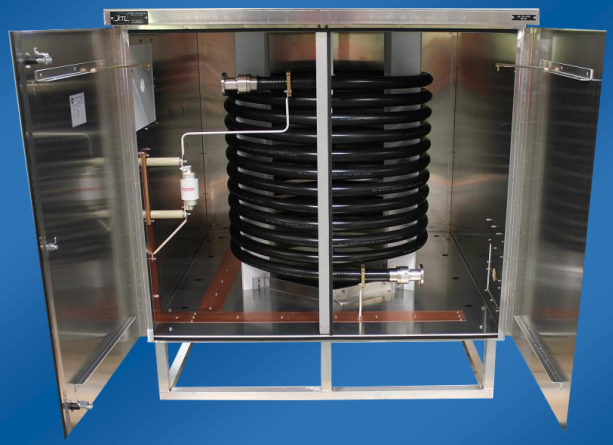
an ISO 9001 registered company

Isolation Coils for FM and LPTV Co-location on AM Tower

Co-locate your Low Power FM or LPTV antenna on a hot AM base-insulated tower using one of our broadband isolation coils to isolate the frequencies

ISO-170-FM

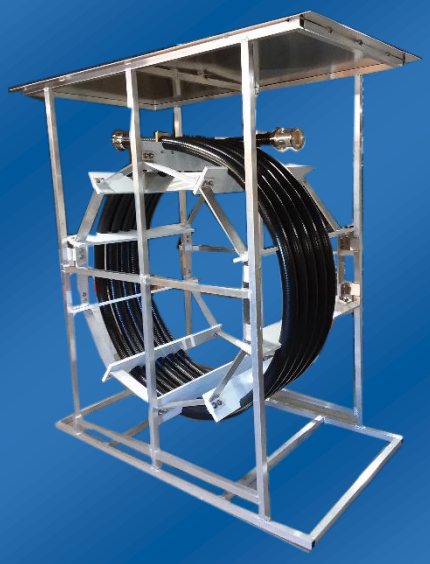
ISO-100-78EIA



ISO-158-9T-36ID

Enclosure Options			
	PVC	Mesh Screen	Aluminum Housing
ISO-130-FM	✔		
ISO-170-FM	✔		
ISO-100-78EIA	✔	✔	
ISO-158-9T-36ID		✔	✔

Outdoor Enclosures Available for *ALL* Models



Example shown above is an outdoor unit with an ice shield.

 ISO 9001:2008(E) QUALITY MANAGEMENT SYSTEM *QF-723-029 Rev. D* *2022-03-16*

MAILING ADDRESS: PO Box 845, Bristol, TN 37621-0845

PHONE: +1 423 878-3141 **e-mail:** KTL@kintronic.com **website:** www.kintronic.com

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Technical Specifications

	ISO-130-FM	ISO-170-FM	ISO-100-78EIA		ISO-158-9T-36ID
Frequency Range	DC – 2700 MHz	DC – 2700 MHz	DC – 2700 MHz		DC – 2700 MHz
Cable Type	3/8" Foam	½" Foam	7/8" Foam		1-5/8" Foam
Impedance	50 Ω	50 Ω	50 Ω		50 Ω
Resonated*	Optional*	Optional*	Yes		Yes
Coax Connectors	N Female	N or 7/16 DIN Female	7/8" EIA Male or 7/16 DIN		1-5/8" EIA Male
DC Power Passing	Yes	Yes	Yes		Yes
Dimensions	35-3/4"L x 9"Dia.	44"L x 12-1/2"Dia.	27"L x 24"D x 54"H (on metal plate)		54"L x 54"D x 48"H (enclosure dims.)
Power Rating**			**Screen**	**PVC**	
100 MHz	365 W	1,050 W	5,500	3,000 W	11,500 W
500 MHz	175 W	500 W	2,500 W	1,100 W	5,200 W
1000 MHz	135 W	380 W	1,600 W	750 W	3,500 W
2500 MHz	100 W	275 W	950 W	500 W	2,000 W
Insertion Loss					
100 MHz	1.22 dB	0.86 dB	0.37 dB		0.23 dB
500 MHz	2.75 dB	1.99 dB	0.89 dB		0.55 dB
1000 MHz	4.0 dB	2.87 dB	1.31 dB		0.82 dB
2500 MHz	6.5 dB	5.2 dB	2.3 dB		1.44 dB
AM Isolation Performance					
Frequency Range (typical)	530-1710 kHz	530-1710 kHz	530-1710 kHz		530-1710 kHz
Isolation Frequency*** (Customer specified)	Single	Single	Single		Single
AM RF Impedance	>3,000 Ω	>3,000 Ω	>3,000 Ω		>3,000 Ω
AM Base Volts (Max, Standard)	10 kV	20 kV	20 kV		20 kV

*Higher impedance resonated versions are available upon request.
** Average Power rating at 40 degrees C and 1.5/1 max VSWR. Reduce power ratings by 20% for 50 degrees C ambient temperature
***Can be used on sites with more than one frequency with proper overall system design.

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