



Design Capabilities

Design Input											Design Variables						
	Voltage	Current	Inductance	Turns	Turns Ratio	DCR	Volt-Amp Rating	Accuracy (%)	Hi-Pot Rating	Other	Core Size	Core Shape	Core Material	Wire Size	Bobbin Size	Temp Class	Lead Free (RoHS)
Current Transformers	X	X		X	X	X		X		Burden Resistor	X	X	X	X	X		X
Power Inductor/Choke	X	X		X		X		X	X		X	X	X	X	X	X	X
Switch Mode Power Supply Inductor	X	X	X	X		X		X	X		X	X	X	X	X	X	X
Switch Mode Power Supply Transformer	X	X			X	X	X		X		X	X	X	X	X	X	X
Toroidal Power Transformer	X	X			X	X	X	X	X		X		X			X	X
Laminate Power Transformer	X	X			X	X	X	X	X		X	X	X	X	X	X	X
Broadband (RF) Transformer										IL, Coupling, Frequency	X	X	X	X			X
Air Coil			X	X		X							X				X
Bandpass Filter	X		X					X	X		X	X	X	X	X	X	X
Audio Transformer					X	X	X	X		Impedance, CMR, THD	X	X	X	X	X		X
Voltage Sense Transformer	X				X	X	X	X	X		X	X	X	X	X	X	X
Lighting Chokes	X	X	X								X	X	X	X		X	X
Heater Coil						X		X		Heater Specifics							X
Relay Coil	X					X			X		X	X	X	X			X
RF Coupler										IL, Coupling, Frequency	X	X	X	X			X
Fielded Directed Coil			X						X	Input Pulse	X	X	X	X			X
Flyback Transformers	X	X			X	X			X		X	X	X	X	X	X	X
Present Production Limitations	Units	Min	Max	Notes													
Wire Size	X	40	8	Have used larger size copper tubing on some air coils and high power field-focused coils													



Test Capabilities

Test Aspect	Units	Min	Max	Notes
Inductance (both w/ and w/o bias, up to 50A)	mH			Up to 3 MHz
Leakage Inductance	mH			Up to 3 MHz
DCR (DC Resistance)	Ohms	1m	10M	
ACR (AC Resistance)				Up to 3 MHz
Turns Ratio		1	10000	Up to 3 MHz
Capacitance (inter-winding)	pF			Up to 3 MHz
Polarity				
Hi-Pot/DWV (Dielectric Withstanding Voltage)	KV		30	
Insertion Loss	dB	0	100	Up to 1500 MHz
Coupling Value	dB	0	100	Up to 1500 MHz
Returns Loss	dB	0	100	Up to 1500 MHz
Q			80	Up to 200 MHz
Impedance				Up to 3 MHz
Phase				Up to 3 MHz
Resonance				Up to 3 MHz
Longitudinal Balance				
Full Load Testing				Built to Suit
Filter Shape Factor and Frequency Response				
Hi-Rel, Burn-in and various environmental testing/qualification				

Our Magnetics group combines the people, products and technologies of Filtran, RTI Electronics and Keytronics into a single entity ready to satisfy your magnetic requirements.

For inquiries and contact information, visit: <http://eis.apitech.com/magnetics>

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About API Technologies

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