

# POWER PRODUCT CAPABILITIES Military/Aerospace Division

When you need to very best ... choose Pulse Electronics  
World-Class design, test and manufacturing of high  
reliability magnetics and assemblies



## Board Mounted

## Chassis Mount

### Transformers

Current Transformers  
Up to 4.7 amps, single phase, 3  
phase – 400Hz



Gate Drive Transformers  
Up to 2KV isolation



Common mode choke



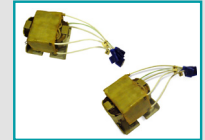
Planar transformers and  
inductors



Power Transformers  
1 phase/3 phase  
Laminated  
Toroid  
Tape Core  
Up to 10KVA



Switch Mode Transformers  
Up to 1KVA



Current sense transformers / Module assemblies  
Single Phase/Multi-Phase  
Up to 4KVA (Burdened)

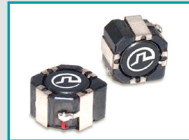
Hall Effect Sensors  
Up to 10KVA



High Isolation Applications

### Inductors

Shielded Drum Core Inductors



SMT Power Inductors



Common Mode Choke  
Up to 14A



Planar Inductors



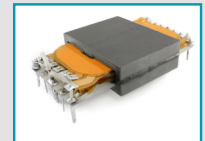
Single Phase Inductors  
Split Differential  
Up to 4KVA



Common Mode Chokes  
Single Phase  
3-Phase  
Line Filtering  
Up to 500VA  
15-2400 Hz



Planar Inductors  
Custom Primary/Secondary  
Custom mechanical  
configurations



## Custom Magnetics Design/Build Capabilities

Product Capability	PACKAGING	MAXIMUM POWER	MAXIMUM CURRENT	FREQUENCY
SINGLE INDUCTORS/ SPLIT DIFFERENTIAL	Lamination, Toroidal, Tape Wound	4KVA		15- 2MHz
COMMON MODE CHOKES 1/3 Phase	Lamination, Toroidal, Tape Wound		500A	15 - 2400Hz
CHOKES 3 PHASE (LINE FILTERING)	Lamination, Tape Wound		500A	15 - 2400Hz
POWER TRANSFORMERS 1 Phase	Lamination, Toroidal, Tape Wound	4KVA		15 - 1200Hz
TRANSFORMERS Laminated 3 Phase	Lamination, Toroidal, Tape Wound	10KVA		15 - 1200Hz
TRANSFORMERS - Switchmode	Planar, Bobbin Wound, Toroidal	1KVA		20K- 1MHz
INDUCTORS - Switchmode Buck/Boost	Toroidal, Bobbin Wound	500VA		20K- 1MHz
TRANSFORMERS - Current Sense	Toroidal, Bobbin Wound	4KVA (burden)		15- 1MHz
TRANSFORMER MODULES -Current Sense 1/3 PHASE	Toroidal, Bobbin Wound	4KVA (burden)		15- 1MHz
TRANSFORMERS Gate Drive	Toroidal, Bobbin Wound			20KHz- 1MHz
HALL EFFECT SENSORS	Lamination, Toroidal, Tape Wound	10KVA		15 - 1200Hz

## Testing Services

Testing capabilities for product qualification and design validation

### ELECTRICAL

- Inductance with or without DC
- Turns Ratio
- HI-POT - Vac up to 5kb, Vdc up to 6kV
- Insulation Resistance
- Distortion
- Pulse Testing
- Thermal Rise
- Impedance

### MECHANICAL

- Mechanical Shock
- Mechanical Vibration
- Solderability
- Resistance to Soldering Heat
- Tin whisker analysis

### ENVIRONMENTAL

- Thermal Shock
- Humidity
- Moisture resistance
- Thermal Cycling
- Steam aging
- Burn In

### ANALYTICAL

- X-Ray
- Real Time X-ray
- Plating composition analysis

### LOCATIONS:

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