

## *Inductors and Transformers For SMPS Magnetic Requirements*



## Transformers and Inductors (Linear Version)

### TALEMA PROFILE

Founded in 1975, The TALEMA International Group has established itself as a world leader in the Design & Manufacture of toroidal transformers and related magnetic components. Our strong technical engineering expertise has contributed to the growth of our current workforce to over 800 employees in manufacturing locations in the Czech Republic and India.

Over the years The Talema Group has succeeded in designing, producing and delivering in excess of 50 million transformers to its customers. The recent incorporation of xDSL technology into our extensive range of Telecom and LAN magnetics offerings, such as ISDN, Ethernet transformers for 10/100/1000Base-T, has broadened our market offering to an even higher level.

### QUALITY

The TALEMA Group has a total commitment to quality and employs Lean Six Sigma training for engineering, production and administrative staff to help achieve a goal of zero defects. All facilities maintain very stringent Quality Control and Quality Assurance procedures and are certified to and manufacture in accordance with ISO 9001:2015 (India) and ISO 9001:2016 (Czech Republic) and meet a broad range of International Standards including UL, VDE, IEC and EN.

### ENVIRONMENT

All TALEMA International Group manufacturing facilities are RoHS & REACH Compliant and all chokes, inductors and HF Components are produced in an Environment Management System (EMS) facility certified to ISO 14001:2015 (India) and ISO 14001:2016 (Czech Republic).



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*Visit our websites for detailed electrical and mechanical specifications for Talema's extensive line of magnetic components for Power Applications, Toroidal Transformers, Telecom & LAN Applications:*

[www.talema.com](http://www.talema.com)

[www.nuvotem.com](http://www.nuvotem.com)

[www.ntmagnetics.cz](http://www.ntmagnetics.cz)

## Transformers and Inductors (Linear Version)

A complete range of transformers and Inductors for SMPS applications is available from Talema, produced to Customer's Specifications:

- Drive Transformers
- Control Transformers
- Flyback Transformers
- High Current Inductors
- Current Transformers
- Common Mode Chokes
- Output Transformers
- Custom Assemblies

Range of Transformers for above specification

- LLC Transformers
- PFC Transformers
- PFC Inductor
- Gateway Transformers
- DC-DC Convertor
- Pulse Transformers
- Bias Transformers
- Power Transformers
- Resonant Inductors

The Talema design team, consisting of engineering and procurement specialists, can help with:

- Sourcing cost-effective alternative materials
- Requirements for safety standards (eg. EN60065, EN60950 & IEC 60664-1)
- Design Assistance
- Manufactured in ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Fully RoHS & REACH Compliant and meet Lead Free reflow level J-STD-020C for SMD Products
- Temperature Class: B, E, F & H



A wide variation of high frequency winding techniques and construction are employed:

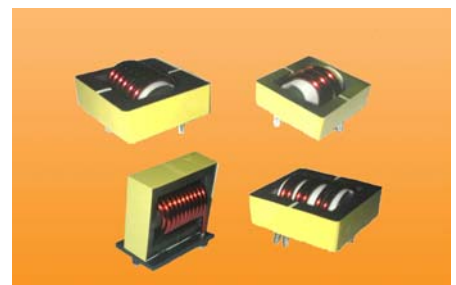
- Multi-strand copper
- Cu Foil
- Litz
- Heavy Duty Copper (Round / Flat / Rectangular)
- Multi-Insulated Wire
- Creepage Tapes / Safety tapes

High capacity in-house production capabilities permit Talema to meet volume requirements for highly competitive ferrite transformers. Based on the most popular shape and size of product types and various footprints used by equipment manufacturers (RM, EE/EF, EFD/EVD, EI, EP, ER, ETD, P, PT, PTS, PQ and U cores). Talema offers quick turn around on quotation and sample requests, saving time and expense.

### HB & HC Series

#### Common Features

- Type: Vertical / Horizontal
- Mounting: THT
- Class F materials



#### HB Series

- High efficiency, high stability inductors
- Robust Construction

#### Application

- Renewable energy
- Battery charger
- Automotive

#### HC Series

- High Current Inductors
- Class F materials

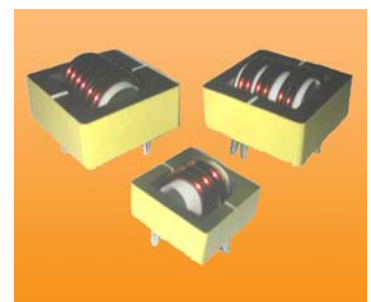
#### Application

- Renewable energy
- Battery charger
- Industrial Converters

#### HB Series



#### HC Series



**Transformers and Inductors (Linear Version)**

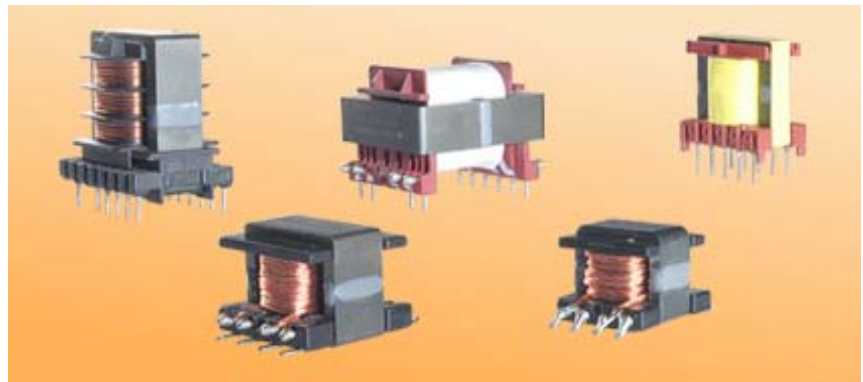
**RM Magnetics**

Type: Vertical  
 Mounting: THT and SMD  
 Range: RM4 - RM14



**EE / EF Magnetics**

Type: Vertical & Horizontal  
 Mounting: THT and SMD  
 Range: EE5 - EE80  
 Sections: Single, Double and Multi-chamber



**Terminals:**

THT - Available in "L" or Straight Pin versions.  
 SMD - Available in "L", "J", "U/C" or GW versions.

**EFD / EVD Magnetics**

Type: Horizontal  
 Mounting: THT and SMD  
 Range: EFD10 - EFD30  
 Range: EVD15 - EVD30  
 Sections: Single, Double and Multi-chamber



**EI Magnetics**

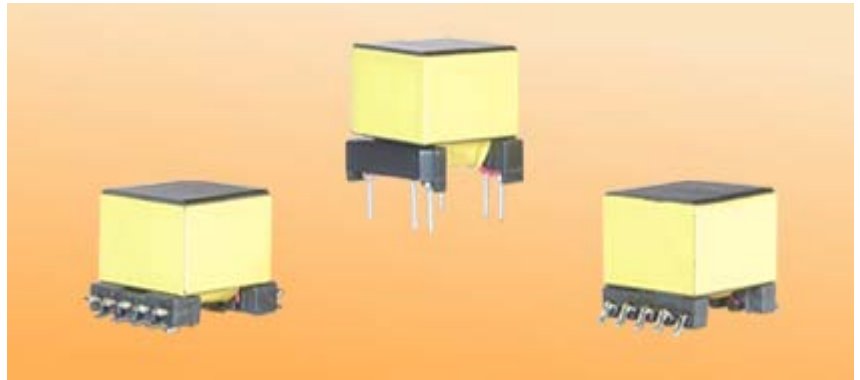
Type: Vertical & Horizontal  
 Mounting: THT  
 Range: EI16 - EI40



**Transformers and Inductors (Linear Version)**

**EP Magnetics**

Type: Horizontal  
 Mounting: THT and SMD  
 Range: EP5 - EP20  
 Sections: Single and Double



**ER Magnetics**

Type: Vertical & Horizontal  
 Mounting: THT and SMD (ER9.5 & ER11)  
 Range: ER9.5 - ER54



**ETD Magnetics**

Type: Vertical & Horizontal  
 Mounting: THT  
 Range: ETD29 - ETD59

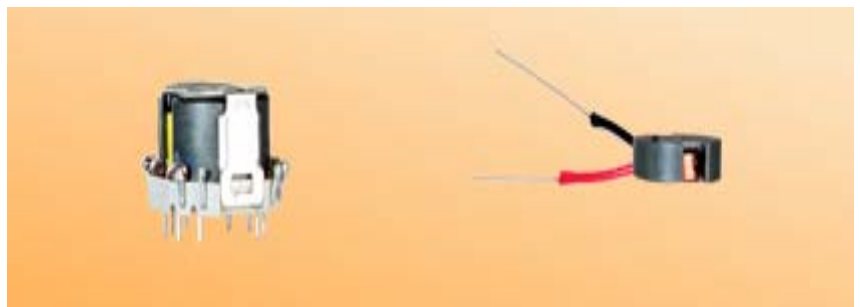
**Terminals:**

THT - Available in "L" or Straight Pin versions.  
 SMD - Available in "L", "J", "U/C" or GW versions.



**P Magnetics**

Type: Vertical  
 Mounting: THT  
 Range: P9 - P66



**Transformers and Inductors (Linear Version)**

**PT Magnetics**

Type: Vertical  
 Mounting: THT  
 Range: PT14 - PT23



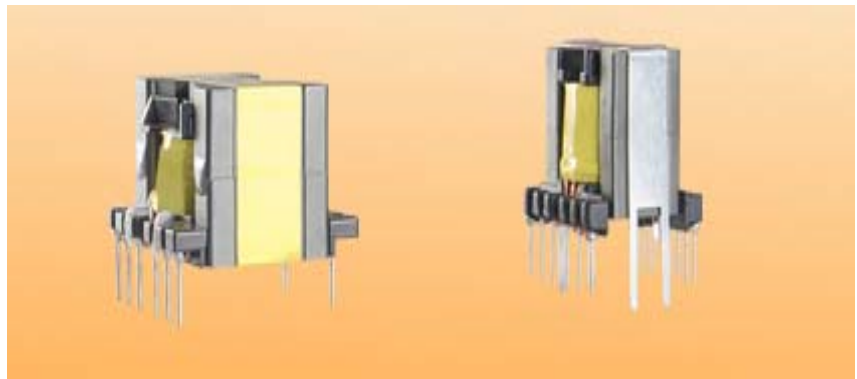
**PTS Magnetics**

Type: Vertical  
 Mounting: THT  
 Range: PTS14 - PTS40



**PQ Magnetics**

Type: Vertical  
 Mounting: THT  
 Range: PQ20 - PQ50



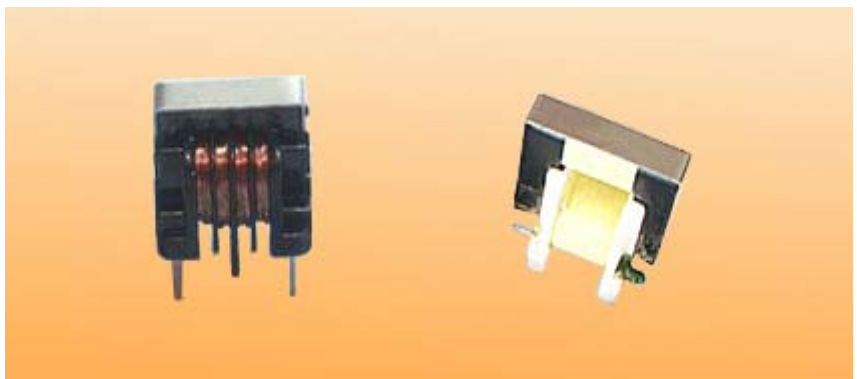
**U Magnetics**

Type: Horizontal  
 Mounting: THT  
 Range: U10 - U30

**Terminals:**

THT - Available in "L" or Straight Pin versions.

SMD - Available in "L", "J", "U/C" or GW versions.



## Regional Locations - Design, Manufacturing, Sales & Marketing

### Talema Group Regional Offices

#### North America

##### United States (Sales & Marketing)

**Talema Group, LLC**  
 PO Box 935  
 900 Innovation Drive  
 Suite 120, Rolla  
 Missouri 65402  
 Tel: +1 573-303-3675  
 E-Mail:  
[sales@talemagroup.com](mailto:sales@talemagroup.com)  
 Web: [www.talema.com](http://www.talema.com)

#### Asia

##### India (Design, Manufacturing, Sales & Marketing)

**Administrative Office**  
**Talema Electronic India Private Limited**  
 Door No. 221, 1st and 2nd Floor  
 KJ Plaza, Opp.to Vidya Mandir School  
 Meyanoor Main Road  
 Salem - 636 004 Tamil Nadu INDIA  
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 Fax: +91 427 - 243 3109  
 E-Mail: [talema@talemaindia.net](mailto:talema@talemaindia.net)  
 Web: [www.talema.com](http://www.talema.com)

**Factory Premises**  
**Talema Electronic India Private Limited**  
 Plot Nos. 30, 31 Electrical and Electronic  
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 Salem - 636 005 Tamil Nadu INDIA  
 Tel: +91 427 - 243 3000  
 E-Mail: [talema@talemaindia.net](mailto:talema@talemaindia.net)  
 Web: [www.talema.com](http://www.talema.com)

#### Europe

##### Germany (Design, Sales & Marketing)

**Talema Elektronik GmbH**  
 Sembdnerstr. 5  
 82110 Germering  
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 Fax: +49 89 - 841 00 25  
 E-Mail: [info@talema.de](mailto:info@talema.de)  
 Web: [www.talema.com](http://www.talema.com)

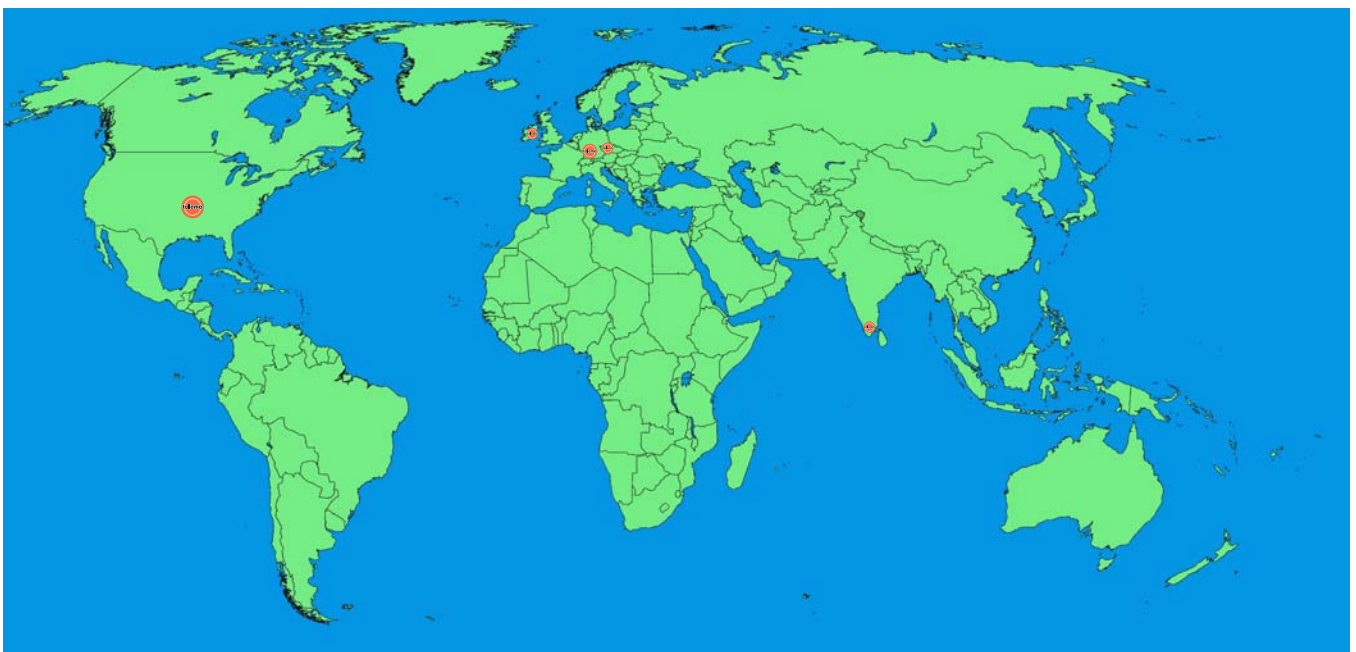
##### Ireland (Design, Sales & Marketing)

**Nuvotem TEO**  
 Units W & X, Gweedore Business Park  
 Derrybeg, Letterkenny, Co. Donegal  
 Tel: +353 (0) 74 95 48666  
 Fax: +353 (0) 74 95 48139  
 E-Mail: [info@nuvotem.com](mailto:info@nuvotem.com)  
 Web: [www.nuvotem.com](http://www.nuvotem.com)

##### Czech Republic (Design, Manufacturing, Sales & Marketing)

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 Chebská 27  
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 Fax: +420 377 - 338 350  
 E-Mail: [talema@talema.cz](mailto:talema@talema.cz)  
 Web: [www.ntmagnetics.cz](http://www.ntmagnetics.cz)

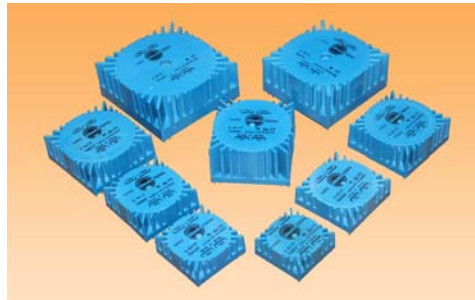
### Locations of Talema Group Regional Offices



## Summary

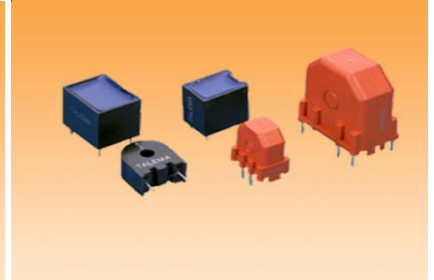
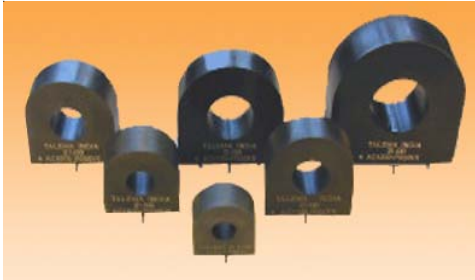
### SECTION 1

- TOROIDAL 50/60Hz TRANSFORMERS, TOROIDAL PCB TRANSFORMERS & MEDICAL GRADE ISOLATION TRANSFORMERS



### SECTION 2

- CURRENT SENSE TRANSFORMERS & INDUCTORS



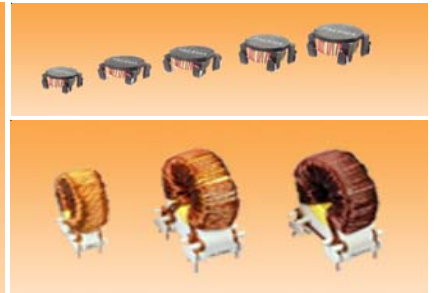
### SECTION 3

- CHOKES, INDUCTORS AND TRANSFORMERS FOR POWER APPLICATIONS



### SECTION 4

- Transformers & Inductors FOR SMPS MAGNETICS REQUIREMENTS

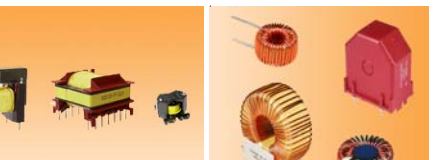
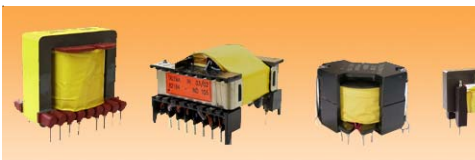


### SECTION 5

- COMPONENTS FOR TELECOMMUNICATIONS AND DATA LINE TECHNOLOGY

### SECTION 6

- CURRENT COMPENSATED EMI NOISE SUPPRESSION CHOKES



### SECTION 7

- LAN MAGNETIC COMPONENTS FOR ETHERNET APPLICATIONS

### SECTION 8

- T1/E1/CEPT-PRI - T3/DS3/E3/STS-1 FOR TELECOMMUNICATION PRODUCTS



### SECTION 9

- TRANSFORMERS FOR BROADBAND ACCESS AND FIBRE CHANNEL INTERFACE



### SECTION 10

- THE TALEMA GROUP BROCHURE

