



OSWELL



TRANSFORMER INDUCTOR

Professional Designer Excellent Manufacturer Strategic Partner

OSWELL E-GROUP, located in Shanghai of China, as a leading supplier of electronic components, has been devoted to develop a full range of smart products for auto controlling system, automative, metering, switching power supply, communication system, etc. Our goal is to be Professional, Innovative, Honesty, and International.

The rich experience design team helps to ensure the best design with reasonable cost. High quality and excellent performance is guaranteed by the high precision welding equipment, auto resistance -adjusting tester, skilled workers and QC. Professional Sales are always ready for any questions and communication with clients and distributors.



International Systems in Plant: Certified by ISO9001 & ISO14000, ISO18000 & IATF16949

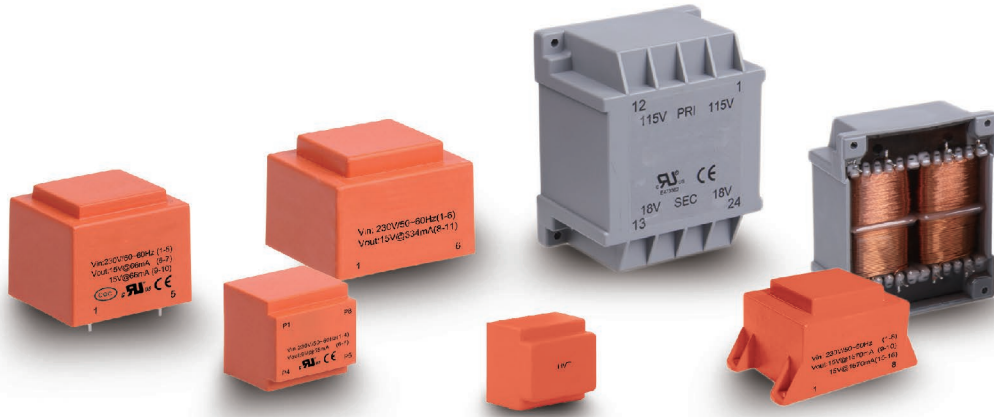
Contents

- 01 Encapsulated Transformer
- 02 High Frequency Transformer
- 03 Inductor
- 04 Filter&Choke
- 05 Cores
- 06 Bobbins

OSWELL

Encapsulated Transformer

CONCEPT-DESIGN-EVALUATION-PROTOTYPE-PRODUCTION



Advantages:

- Better heat dissipation achieved through vacuum encapsulation;
- Higher output power helps a smaller and smarter design;
- Water and Dust proof with lower external influences, mechanical stress and potential noise through vibration;
- Precise dimensional manufacturing processes, allowing automatic pick and place operations.

Features:

- PCB mounted easily, Vacuum Filling
- Meet Split-Bobbin Winding, Sort-Circuit-Proof
- Colour of Housing Available: Blue, Black, Brown
- Dielectric Strength: 4000Vrms
- Wide Output Power: 0.35W~50W
- CE Approved, UL94V-0 Grade

Model No.	Input Voltage	Output Power	Outline Dimension (mm)
PE20/06	110/220/230/240VAC 50/60Hz	0.35/0.45VA	23*22*15
PE20/10		0.50/0.60VA	23*22*19
PE28/10		0.8~1.5VA	30*24*29
PE28/14			33*27.8*15
PE28/16			30.5*21.6*31
PE30/05		1.0~1.8VA	33*27.8*15
PE30/08			32.6*27.6*19
PE30/10			32.6*27.6*22
PE30/12.5			33*27.8*24
PE30/15			32.6*27.6*27.3
PE30/18		2.0~3.2VA	33*27.8*33.5
PE30/23			32.6*27.6*34.8
PE38/13		3~5VA	41*35*28
PE42/14			44.5*37.5*32.5

Other Options:



Mini-Line THT* (EE20)

Up to 0.5VA
Temperature class ta 70°C/B



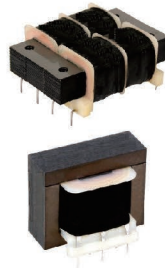
Compact Power Supplies

Up to 60VA
Temperature class ta 40°C/B
Din-rail Mounting



Print-Line THT* (EI30-EI54)

Up to 16VA
Temperature class ta 70°C/B (EI30/EI42)
Temperature class ta 40°C/B (EI48/EI54)



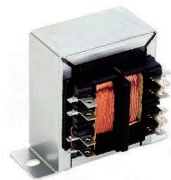
Printed Circuit Mount

International
Split bobbin: single (ST) and dual primary (DST)
Low profile
Concentric vertical profile single (PC)
and dual primary (DPC)



Low Profile THT* (UI30-UI39)

Up to 30VA
Temperature class ta 40°C/B



Chassis Mount

International
Split bobbin: single (241) and
dual primary (DP241)

Potted under vacuum, two-chamber bobbin, custom designs available upon request, THT=Through Hole



With Mounting Brackets* (EI42-EI66)

Up to 50VA
Temperature class ta 70°C/B (EI42)
Temperature class ta 40°C/B (EI48/EI66)

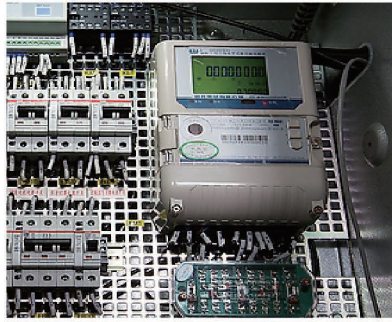


Ignition Transformers Spark-Line-THT

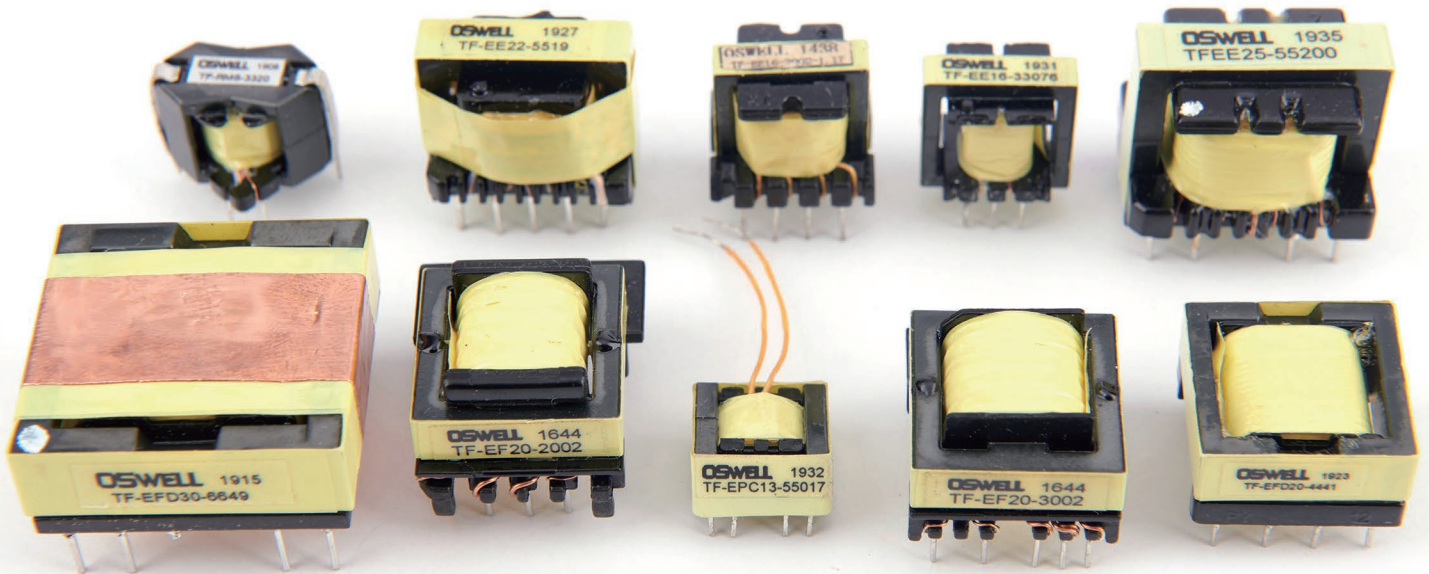
Up to 23KV
Ambient temperature 70°C
Up to 2 HT connections
Compact design
Custom designs available

APPLICATIONS

- Medical equipment
- Industrial equipment
- Electric meter appliances
- Water meter appliances
- Household appliances
- Test equipment
- Industrial computers
- Avionics & telecom



High Frequency Transformer



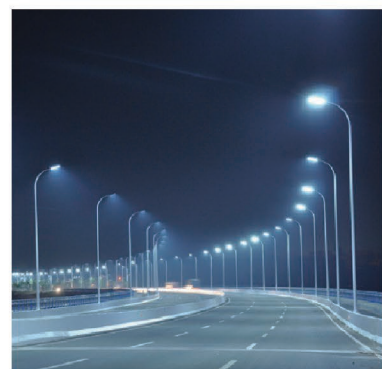
Features:

- Chassis mounting
- Dual bobbin; Double Reinforced Insulation
- High (4000V) isolation
- No crossover between primary and secondary winding leads
- High Transmission Efficiency
- High Working Frequency
- Lower Temperature Rise
- Small Size and Light Weight

Applications:

- Kinds of Lighting
- Consumer Electronics
- Telecom
- Electronic Ballast
- Home Appliances
- Medical /Military Equipments
- Automotive
- New Energy
- Energy Meter

TYPE	Output Power	Outpue Channel	Bobbin
Power Ferrite Transformer	1~6W	1/2/3	EE8.3 EE10
	1~9W		EF12.6 EE13
	6~12W		
	10~18W	2/5	EI19 EE19 EEL19
	12~24W	2/3	EE20 EF20 EI20
	15~30W	1/3	E25
	30~60W	4	ERL28
	60~90W		ETD34
	70~140W		ETD39
	120~180W		ETD44



Inductor



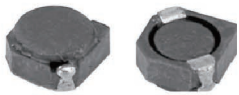
FASDR SERIES

SDR0302 to SDR1008 SERIES - UNSHIELDED
 0.8uH to 1.2mH Inductance
 1.80mm to 8.30mm Height
 0.03A to 4.70A Saturation Current



FASPI SERIES

SPI-T SERIES - UNSHIELDED
 1.0uH to 1.0mH Inductance
 3.00mm to 11.43mm Height
 0.10A to 18.00A Saturation Current



FASDRH SERIES

DRH2D11 to 6D38 - MAGNETICALLY SHIELDED
 1.0uH to 180uH Inductance
 1.90mm to 4.00mm Height
 0.15A to 5.00A Saturation Current



FASPI SERIES

SPI-S SERIES - MAGNETICALLY SHIELDED
 10uH to 1mH Inductance
 2.92mm to 7.62mm Height
 0.045A to 8A Saturation Current



FASDRH SERIES

SDR6025 to 7045,10145 to 12575-
 MAGNETICALLY SHIELDED
 1.0uH to 560uH Inductance
 3.00mm to 5.50mm Height
 0.11A to 7A Saturation Current



FASPI SERIES

SPI-HC SERIES - HIGH CURRENT
 0.18uH to 1.4mH Inductance
 5mm to 12.3mm Height
 0.53A to 40A Saturation Current



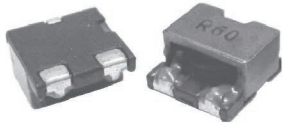
FASDRH SERIES

SDRH-B SERIES - DUAL WINDING
 5.6uH to 160uH Inductance
 4.50mm to 8.00mm Height
 1A to 7A Saturation Current



FALQH SERIES

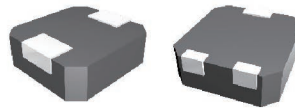
LQH1008,1206,1210,1812,2220 SERIES
 0.1uH to 10mH Inductance
 2.00mm to 5.00mm Height
 0.05A to 7.80A Saturation Current



FACEP SERIES

CEP SERIES - HIGH CURRENT

0.15uH to 27uH Inductance
4.5mm to 8.1mm Height
4.5A to 70A Saturation Current



FAPM SERIES

PM SERIES - HIGH FREQ&HIGH CUR-
RENT, SHIELDED

0.22uH to 22uH Inductance(at up to 5MHz)
1.80mm to 6.70mm Height
2.0A to 48A Saturation Current

SMD Inductor:



SMD Inductor:



DR Inductor



APPLICATIONS

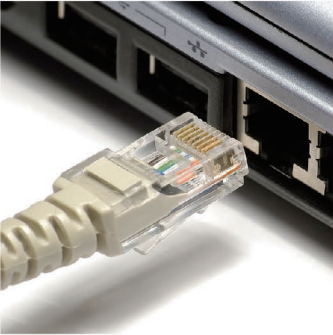
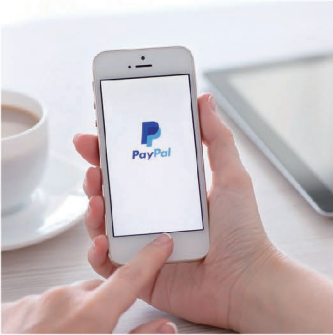
AUTOMOTIVE APPS

DC-DC CONVERTER APPS

TELECOM APPS

ADSL APPS

COMPUTER APPS

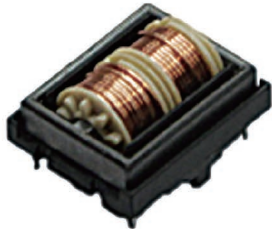
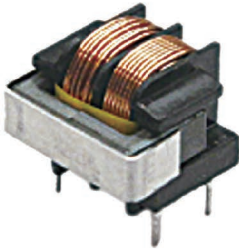


EMC Line Filter & Choke

Common mode choke coils and filters with large current, available in different sizes

Applications:

reliability EMC/EMI solutions
for kinds of power supply



For Power Lines

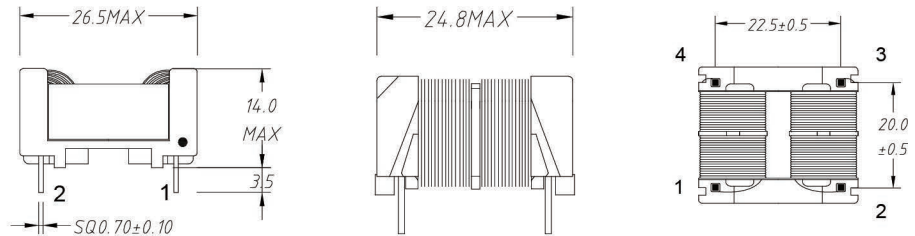
- Rated current: LR at 50Hz and TA=40°C
- Rated voltage: 250VAC
- Clearance and creepage distance: >3mm
- Lead spacing: 18.75 x 10.0 ±0.2mm
- Climatic category 40/125/56 (to IEC 60068-1)
- Excellent differential-mode suppression



$L_R +30/-50\%$	mH	10	15	27	39	47	68	100
$L_{R typ}$	A	1.6	1.3	0.9	0.8	0.7	0.6	0.45
$L_{stray typ}$	μH	200	290	520	760	920	1340	1930
R_{typ}	m Ω	290	430	770	1100	1260	1970	2930

Rated inductance L_R : measured at 10kHz, 0.1 mA, 20°C

Frame Core Chokes for Power Lines

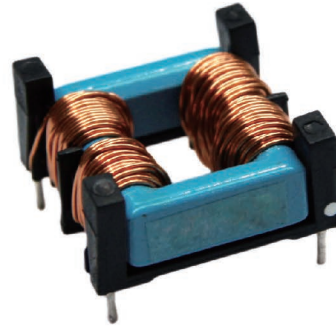


APPLICATIONS
LIGHTING
MEDICAL
INDUSTRIAL



For Power Lines

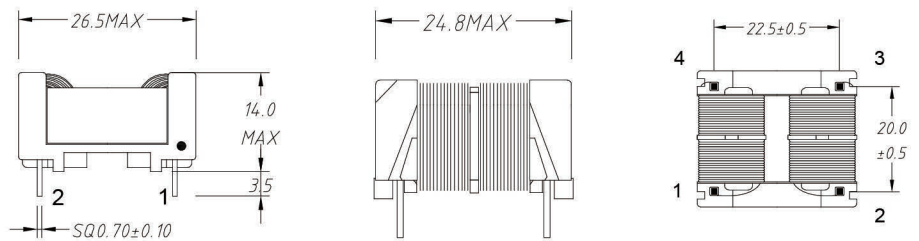
- Rated current: LR at 50Hz and TA=40°C
- Rated voltage: 250VAC
- Clearance and creepage distance: >3mm
- Lead spacing: 22.5 x 20.0 ±0.2mm
- Climatic category 40/125/56 (to IEC 60068-1)
- Excellent differential-mode suppression



L_R +30/-50%	mH	10	15	27	39	47	68	100
$L_{R\text{ typ}}$	A	2.3	1.9	1.4	1.2	1.1	0.9	0.7
$L_{\text{stray typ}}$	μH	200	310	530	800	970	1440	2100
R_{typ}	m Ω	188	279	440	696	804	1100	1810

Rated inductance L_R : measured at 10kHz, 0.1 mA, 20°C

Frame Core Chokes for Power Lines



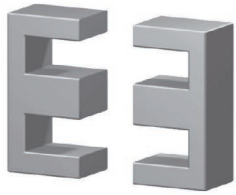
APPLICATIONS

- OUTDOOR LIGHTING
- INDOOR LIGHTING
- STREET LIGHTING



Cores

YOUR SINGLE SOURCE OF MAGNETICS



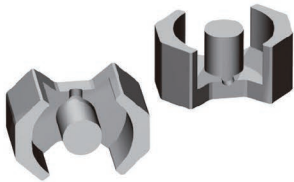
FERRITE EE CORE



FERRITE EFD CORE



FERRITE PQ CORE



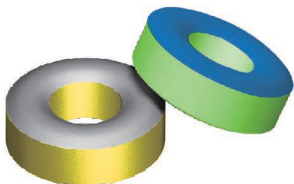
FERRITE RM CORE



FERRITE POT CORE



FERRITE ETD CORE



IRON POWDER CORES



SENDUST CORES



AMORPHOUS CORES

PRODUCTS

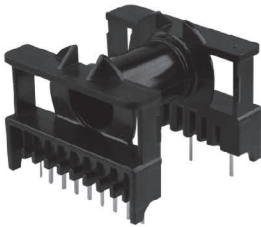
EE EI EER ETD EC EF EFD ED EEM
RM UU EPC EP PQ etc. TYPES
FERRITE CORE
IRON POWDER CORES
MPP CORES
HIGH FLUX CORES
KOOL MU CORES

SERVICES

LARGE IN-STOCK SELECTION
FERRITE GAPPING & MACHINING
EXPERIENCED TECHNICAL SUPPORT
DESIGN & MAKE NEW TOOLINGS
FAST RESPONSE
WORLDWIDE SHIPPING
ON TIME DELIVERY

Bobbins

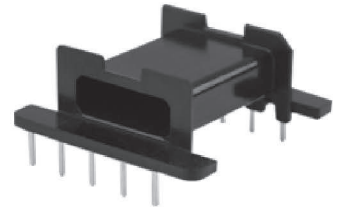
YOUR SINGLE SOURCE OF MAGNETICS



ETD DIP BOBBIN



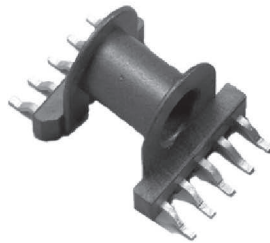
PQ DIP BOBBIN



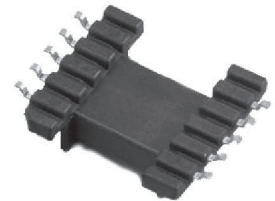
EFD DIP BOBBIN



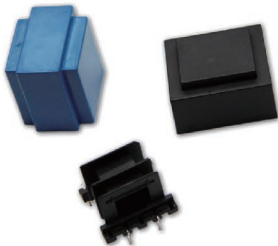
RM SMD BOBBIN



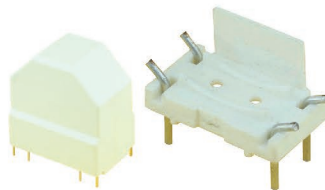
EP SMD BOBBIN



EFD SMD BOBBIN



Encapsulation Bobbins & Cases



BASE & CASE



CLAMP

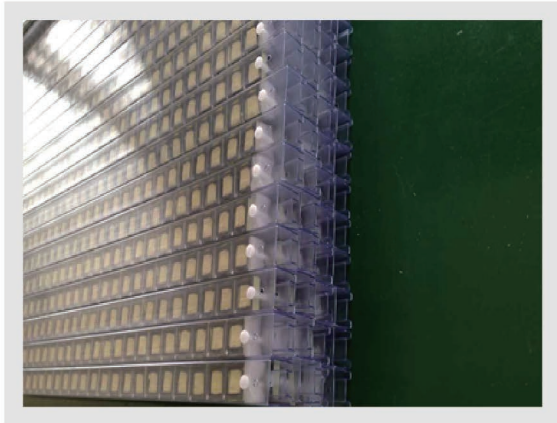
PRODUCTS

EE EI EEL EF EFD EP ER EPC ETD PQ
RM POT UU UT ET etc. TYPES
THROUGH-HOLE BOBBINS
SMD BOBBINS
BASES & CASES
Encapsulation BOBBINS & CASES
CLAMPS

SERVICES

EXPERIENCED TECHNICAL SUPPORT
DESIGN & MAKE NEW TOOLINGS
FAST RESPONSE
WORLDWIDE SHIPPING
ON TIME DELIVERY

Packing for Shipment



Tube Package



Reel Package



Blister Packaging



EPE Foam Package



EPE Foam + Wrapped Package





Oswell E-Group

7F ,Yu An Mansion, 738 Dongfang Rd.,
Shanghai 200122, P.R.China 

+86 21 6875 6810/90 

+86 21 68671885-16 

sales.metering@oswell.com.cn 

www.eoswell.com 