

Transformers

For Power Supply

Pin Terminal

SRW Series

The patented double wire shield structure of this new series of transformers results in lower flux leakage than the prior art copper-shielded transformers with laminated cores. Flux leakage of this

series is roughly 50% that of the prior art value in the direction of the terminals, and at or below the prior art in other directions.

FEATURES

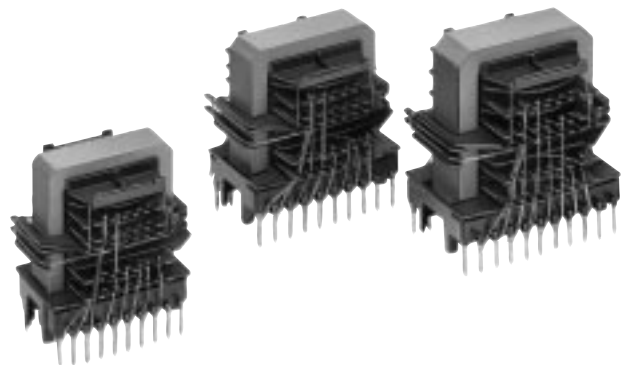
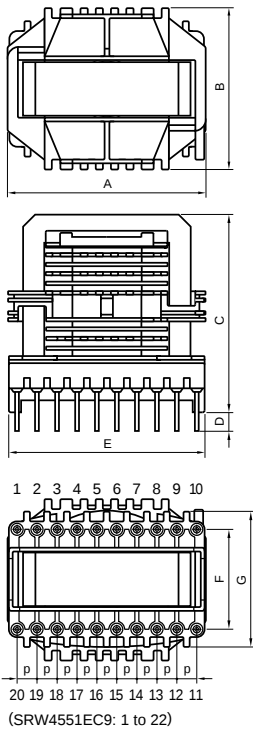
- The SRW series has highly effective shielding and low flux leakage due to a combination of TDK's unique optimized bobbin design, winding technology, and wire shield technology. Adverse affects upon surrounding components are avoided since the flux leakage at either mend surface of the transformer is decreased by 50%.
- The bobbin features a new unique TDK design of the core gap, where leakage flux concentrates, preventing heat generation.
- By rethinking wire type, copper shielding, etc., TDK has produced a transformer that is extremely simple and highly reliable.

- Reliability is further enhanced by molded plastic insulation between the primary and secondary windings.
- These transformers comply with UL, CSA, IEC, and Japanese(Electrical Appliance and Material Control Law) safety standards.

APPLICATIONS

Converter transformers used for 21-inch to about 32-inch color TVs.

SHAPES AND DIMENSIONS



Dimensions in mm

Part No.	Rated power(W) [at 50kHz]	Main applications	A max.	B max.	C max.	D ±1	E ±0.5	F ±0.5	G ±0.5	P ±0.3	Terminal diameter	Number of terminals
SRW3741EC9	80	21", 25" 24"/	45	36	48	4.5	41	22.5	31	4	ø0.8	20
SRW4242EC9	130	28"WIDE 29"	51	41	51	4.5	49	25	34	5	ø1	20
SRW4551EC9	150	32"WIDE	55	43	58	4.5	54	27.5	36.5	5	ø1	22

ELECTRICAL CHARACTERISTICS(Design effective range)

Part No.	Rated power(W) [at 50kHz]	Maximum power(W)	Secondary output number (Partial common GND)
SRW3741EC9	80	90 max.	5 max.
SRW4242EC9	130	150 max.	5 max.
SRW4551EC9	150	170 max.	5 max.

DESIGN REQUIREMENTS

Input voltage	AC.90 to 280V, 50/60Hz
Circuit type	RCC(Ringing Choke Converter)

COMMON SPECIFICATIONS

Item	Test conditions	Standards
Withstand voltage	[Primary to secondary]	AC.3.5kV • 1min No abnormalities
	[Primary, secondary to core]	AC.2kV • 1min No abnormalities
	[Secondary to secondary]	AC.0.5kV • 1min No abnormalities
Insulation resistance	[Primary to secondary]	DC.500V 100MΩ min.
	[Primary, secondary to core]	DC.500V 100MΩ min.
Winding thermal classification		Class E(115°C)
Relevant safety standards	Japan Electrical Appliance and Material Control Low/UL1411/ CSA22.2 No.1/IEC65	

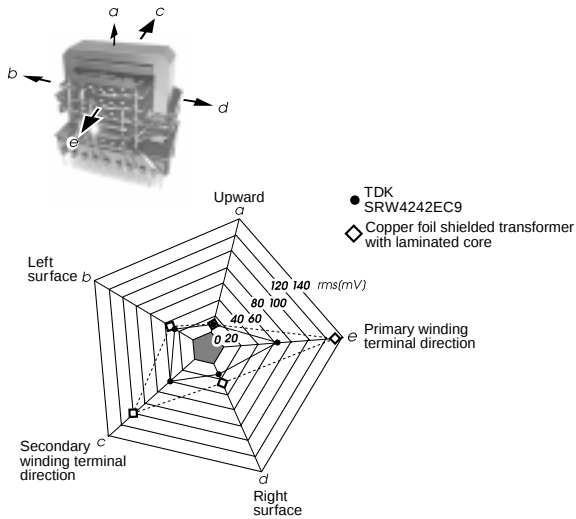
- The SRW series also includes various types of small shieldless EI type transformers.

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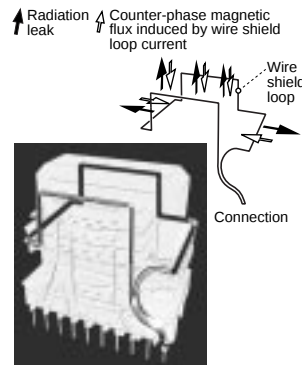
SRW Series

COMPARATIVE EXAMPLE OF RADIATION LEAKAGE (130W type)

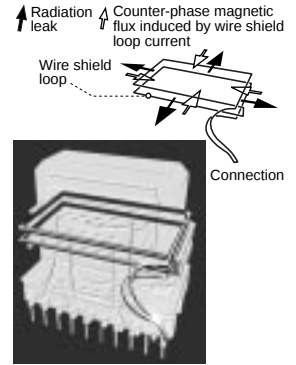


PRINCIPLES OF RADIATION LEAKAGE SUPPRESSION via A DOUBLE WIRE SHIELD

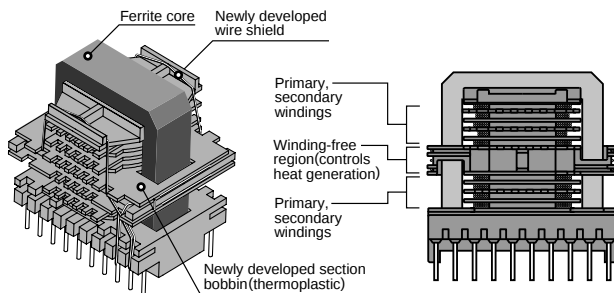
TRANSFORMER RADIATION LEAKAGE



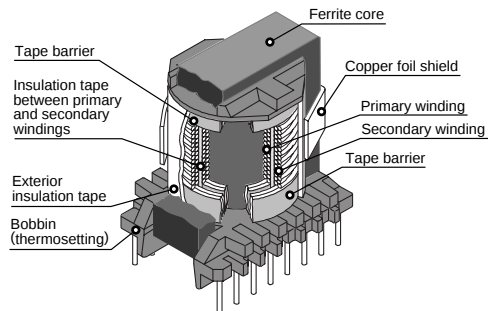
RADIATION LEAKAGE FROM CORE AIR-GAP REGION



COMPARATIVE EXAMPLES OF DESIGN TDK MULTIFUNCTION TRANSFORMER



LAYERED CORE TRANSFORMER WITH COPPER FOIL SHIELD



SUNSTAR 商斯达实业集团是集研发、生产、工程、销售、代理经销、技术咨询、信息服务等为一体的高科技企业，是专业高科技电子产品生产厂家，是具有 10 多年历史的专业电子元器件供应商，是中国最早和最大的仓储式连锁规模经营大型综合电子零部件代理分销商之一，是一家专业代理和分销世界各大品牌 IC 芯片和电子元器件的连锁经营综合性国际公司，专业经营进口、国产名厂名牌电子元件，型号、种类齐全。在香港、北京、深圳、上海、西安、成都等全国主要电子市场设有直属分公司和产品展示展销窗口门市部专卖店及代理分销商，已在全国范围内建成强大统一的供货和代理分销网络。我们专业代理经销、开发生产电子元器件、集成电路、传感器、微波光电元器件、工控机/DOC/DOM 电子盘、专用电路、单片机开发、MCU/DSP/ARM/FPGA 软件硬件、二极管、三极管、模块等，是您可靠的一站式现货配套供应商、方案提供商、部件功能模块开发配套商。商斯达实业公司拥有庞大的资料库，有数位毕业于著名高校——有中国电子工业摇篮之称的西安电子科技大学（西军电）并长期从事国防尖端科技研究的高级工程师为您精挑细选、量身订做各种高科技电子元器件，并解决各种技术问题。

微波光电部专业代理经销高频、微波、光纤、光电元器件、组件、部件、模块、整机；电磁兼容元器件、材料、设备；微波 CAD、EDA 软件、开发测试仿真工具；微波、光纤仪器仪表。欢迎国外高科技微波、光纤厂商将优秀产品介绍到中国、共同开拓市场。长期大量现货专业批发高频、微波、卫星、光纤、电视、CATV 器件：晶振、VCO、连接器、PIN 开关、变容二极管、开关二极管、低噪晶体管、功率电阻及电容、放大器、功率管、MMIC、混频器、耦合器、功分器、振荡器、合成器、衰减器、滤波器、隔离器、环行器、移相器、调制解调器；光电子元件和组件：红外发射管、红外接收管、光电开关、光敏管、发光二极管和发光二极管组件、半导体激光二极管和激光器组件、光电探测器和光接收组件、光发射接收模块、光纤激光器和光放大器、光调制器、光开关、DWDM 用光发射和接收器件、用户接入系统光收发器件与模块、光纤连接器、光纤跳线/尾纤、光衰减器、光纤适配器、光隔离器、光耦合器、光环行器、光复用器/转换器；无线收发芯片和模组、蓝牙芯片和模组。

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