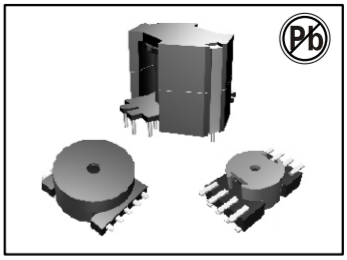
TELECOM TRANSFORMERS
RM & POT SERIES



FEATURES:

- High inductance.
- Low leakage inductance
- Low interwind capacitance
- Compact size and Surface–mounted
- Designed to meet UL, CSA, VDE, BABT safety standard

OPTIONS:

- Tape and reel is standard
- Bulk packaging available for Smaller quantities
- Custom design available
- Tolerance: 5% is standard, Tighter tolerance available
- RM 4, 5, 6, 7, 8, 10, 12, 14 available
- POT 3.2, 4.5, 6, 7, 9, 11, 14, 18, 22, 26, 30, 36, 42, 48 available

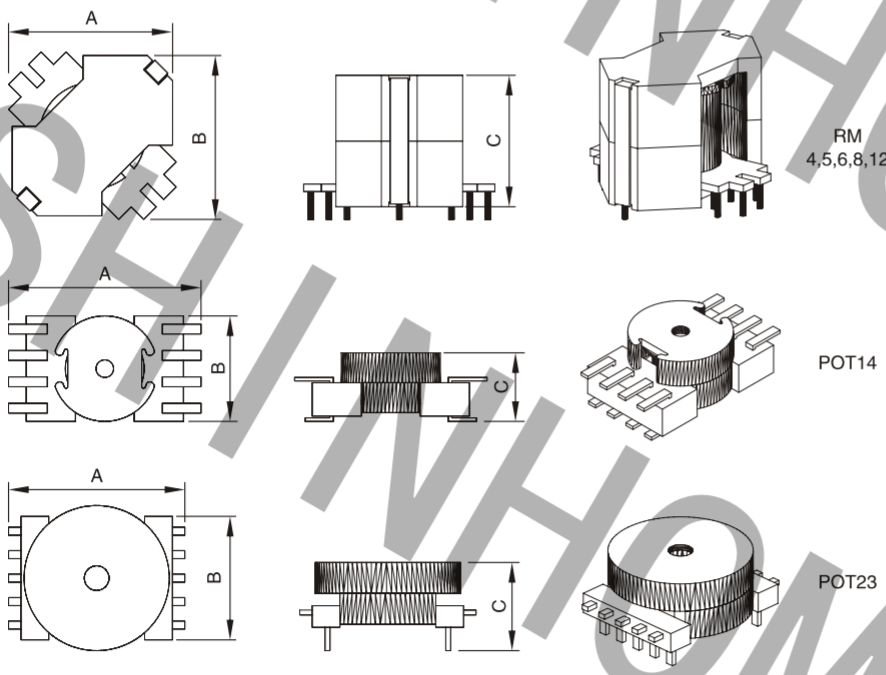
COMMON APPLICATIONS:

- Modem
- Fax machine, Hub
- ISDN, ADSL, HDSL, PABX
- Other telecommunication facilities etc
- Switching power supplies
- AC–DC, DC–DC converters

ELECTRICAL CHARACTERISTICS

Part No.	Inductance(10kHz/0.1V Typ)	Turn Ratio	DCR(Ω max)	Hi–pot (Pri–Sec)	Schematic
RM4	45.2mH ± 35%(3–4)	1:1(2–3:5–6)	2.5:2.5(2–3:5–6)	500VDC	A
RM5	43.5mH ± 6%(1–3=3–4)	1:1(1–3:4–2)	4.6:4.6(1–3:4–2)	1000VDC	B
RM6	20mH ± 6%(2–3 tie 6+5)	1:1(2–5:6–3)	4.0:4.0(2–5:6–3)	850VDC	C
RM8	3.0mH ± 6%(8–6 tie 5+7)	5.24:1(8–6:1–12 tie 5–7)	1.7:1.7:0.42(8–5:7–6:1–12)	2500VAC	D
RM12	140μHmin(3–1=2–11)	1:1:2:2(3–1:12–11:5–6:7–8)	0.012:0.05(3–1=12–11:5–6=7–8)	500VDC	E
POT14	450μH ± 25%(4–1)	3.75:1(4–1:6–8)	0.04:0.012:0.012(4–3:5–7:6–8)	1250VDC	F
POT23	15.5mH ± 10%(1–4 tie 2+3)	1:0.6(1–4:7–9 tie 2+3)	13:7.8(1–4:7–9 tie 2+3)	1500DC	G

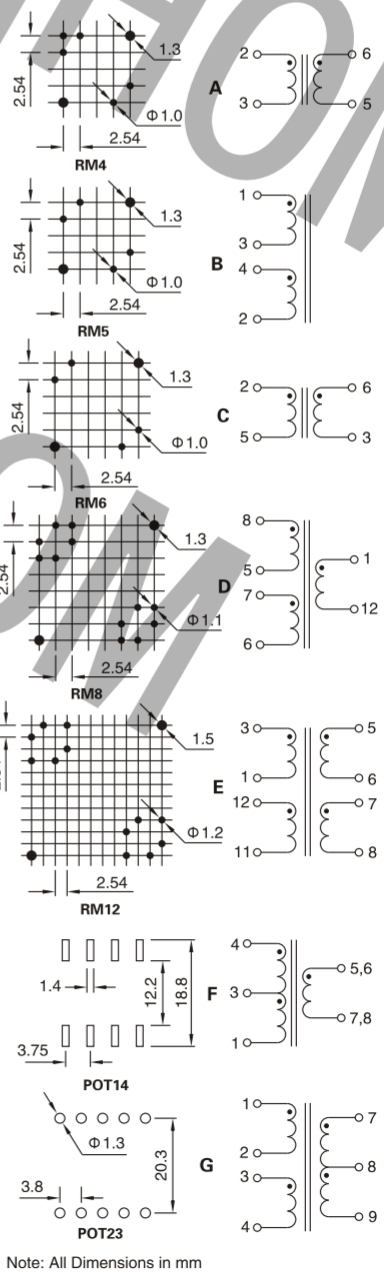
PHYSICAL CHARACTERISTICS



Dimensions(mm)

Part No.	RM4	RM5	RM6	RM8	RM12	POT14	POT23
A	10.5max	13.5max	16.6max	22.0max	31.7max	21.0max	24.4max
B	10.5max	13.5max	16.6max	22.0max	31.7max	15.0max	23.5max
C	11.0max	11.5max	12.7max	17.5max	25.4max	9.0max	11.6max

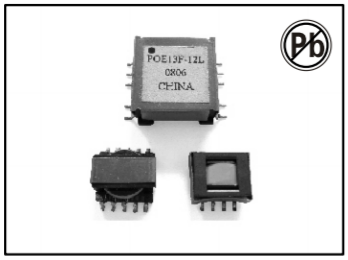
TECHNICAL INFORMATION



Note: All Dimensions in mm

SHINHOM

SHINHOM ELECTRONICS ENTERPRISE CO..LTD. No.100YanTa Northern Road Zip:710054 Tel:0086–29–87851838 Fax:0086–29–87851840



TELECOM TRANSFORMERS
EFD & ER SERIES

FEATURES:

- High inductance.
- Low leakage inductance
- Low interwind capacitance
- Compact size and Surface–mounted
- Designed to meet UL, CSA, VDE, BABT safety standard

OPTIONS:

- Tape and reel is standard
- Bulk packaging available for smaller quantities
- Custom design available
- Tolerance: 5% is standard, tighter available
- SMD EFD 25/30 available

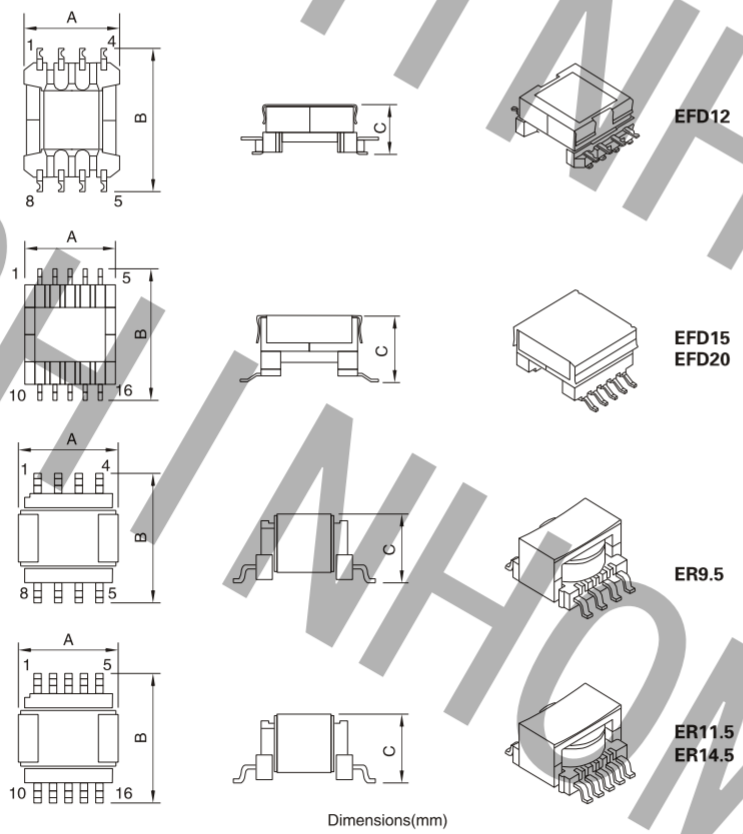
COMMON APPLICATIONS:

- Modem
- Fax machine, Hub
- ISDN, ADSL, HDSL, PABX
- Other telecommunication facilities etc
- Switching power supplies
- AC–DC, DC–DC converters

ELECTRICAL CHARACTERISTICS

Part No.	Inductance(10kHz/0.1V Typ)	Turn Ratio	DCR(Ω max)	Hi–pot (Pri–Sec)	Schematic
EFD12	27 μH ±10 %(3–4)	0.74:1:0.71(3–4:1–2:6–5)	0.21:1.15:0.35(3–4:1–2:6–5)	1250VAC	D
EFD15	4.0mH ± 6%(1–5=10–6)	1:1(1–5:10–6)	6.25:6.25(1–5:10–6)	1000VDC	A
EFD20	20mH ± 6%(1–5 tie 10+6)	1:1(1–5:10–6)	5.5:5.5(1–5:10–6)	1000VDC	A
ER9.5	200 μH Typ.(1–4)	1:1(1–4:5–8)	0.12:0.132(1–4:5–8)	1000VDC	B
ER11.5	58 μH ±10 % (4–2)	1:2(4–2:9–6)	0.35:1.75(4–2:9–6)	500VAC	C
ER14.5	14.4 μH ± 10%(1–3)	1:1:1(1–3:4–5:10–6)	0.063:0.28:0.066(1–3:4–5:10+9–6+7)	500AC	E

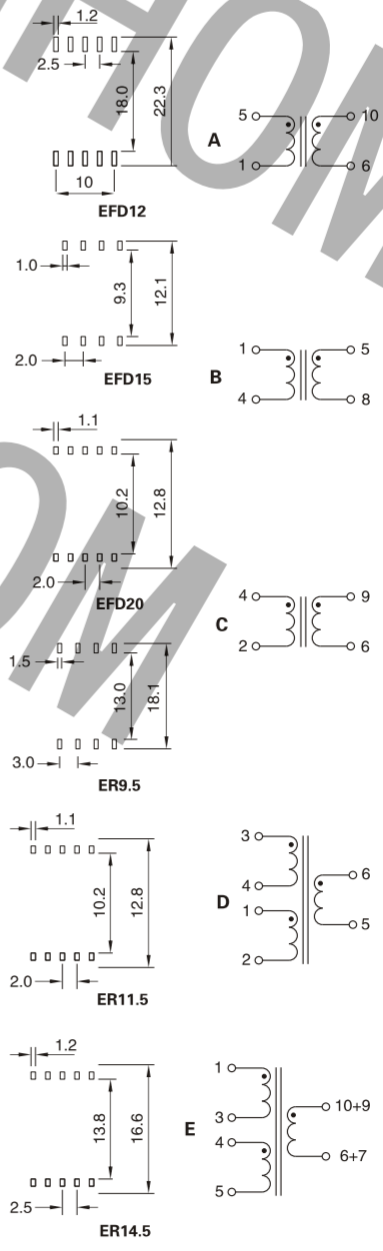
PHYSICAL CHARACTERISTICS



Dimensions(mm)

Part No.	EFD12	EFD15	EFD20	ER9.5	ER11.5	ER14.5
A	14.0max	16.5max	22.0max	10.5max	12.2max	15.2max
B	21.5max	22.3max	26.0max	12.1max	12.7max	16.5max
C	7.4max	8.6max	11.4max	6.2max	6.5max	7.2max

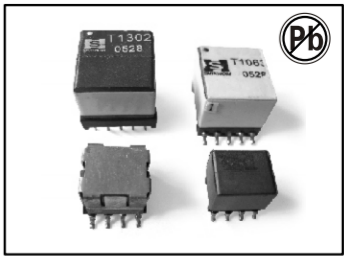
TECHNICAL INFORMATION



Note: All Dimensions in mm

SHINHOM

TELECOM TRANSFORMERS
EP SERIES



FEATURES:

- Low interwind capacitance
- Low total harmonic distortion(THD)
- Compact size and Surface–mounted
- Designed to meet UL, CSA, VDE, BABT safety standard

OPTIONS:

- Tape and reel is standard
- Bulk packaging available for Smaller quantities
- Custom design available
- Tolerance: 5% is standard, Tighter tolerance available

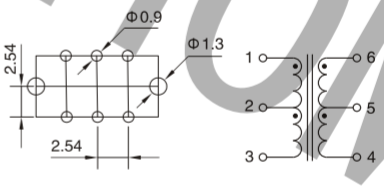
COMMON APPLICATIONS:

- Modem
- Fax machine, Hub
- ISDN, ADSL, HDSL, PABX
- Other telecommunication facilities etc
- Switching power supplies
- AC–DC, DC–DC converters

ELECTRICAL CHARACTERISTICS

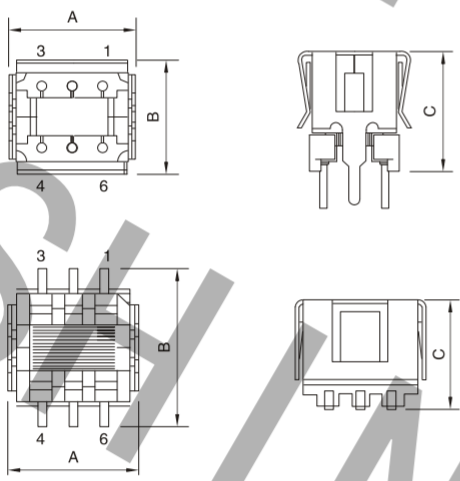
Part No.	Inductance (10kHz/0.1V Typ)	Cs (max)	Turn Ratio	DCR(Ω max)	THD (max)	Hi–pot (Pri–Sec)	Schematic
EP7–1	2.0mH min (1–3)	27pF (pri–sec)	1.66:1(1–3:6–4)	0.8:0.7(1–3:6–4)		1250VAC	A
EP7–2	530 μH ± 6% (6–4)	27pF (pri–sec)	1:1(1–3:6–4)	2.1:2.1(1–3:6–4)	–54dB	1250VAC	B
EP10	1.75mH min (8–2)	100pF (pri–sec)	1:0.653:0.184 (8–2:6–7:3–5)	0.9:0.58:0.09 (8–2:6–7:3–5)		500VDC	C

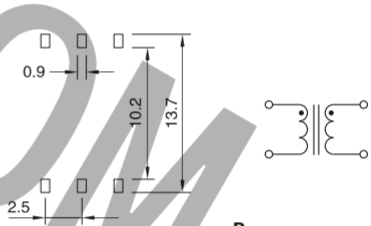
TECHNICAL INFORMATION



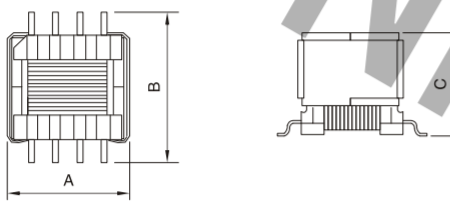
EP7–1 A

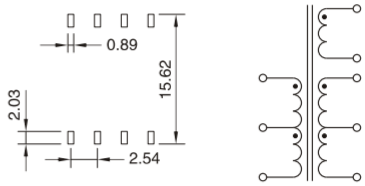
PHYSICAL CHARACTERISTICS





EP7–2 B





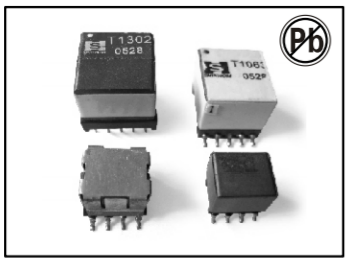
EP10 C

Dimensions(mm)

Part No.	EP7–1	EP7–2	EP10
A	11.2max	11.2max	13.8max
B	9.9max	13.7max	15.2max
C	10.2max	9.5max	11.6max

Note: All Dimensions in mm

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TELECOM TRANSFORMERS
EP SERIES

FEATURES:

- Low interwind capacitance
- Low total harmonic distortion(THD)
- Compact size and Surface–mounted
- Designed to meet UL, CSA, VDE, BABT safety standard

OPTIONS:

- Tape and reel is standard
- Bulk packaging available for Smaller quantities
- Custom design available
- Tolerance: 5% is standard, Tighter tolerance available

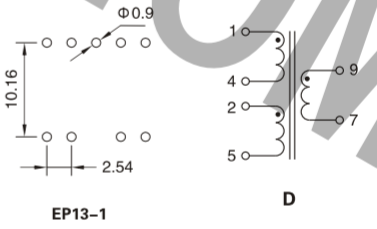
COMMON APPLICATIONS:

- Modem
- Fax machine, Hub
- ISDN, ADSL, HDSL, PABX
- Other telecommunication facilities etc
- Switching power supplies
- AC–DC, DC–DC converters

ELECTRICAL CHARACTERISTICS

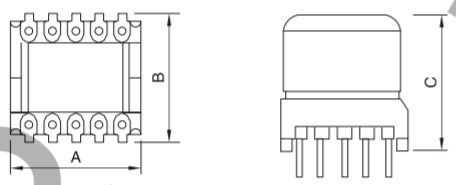
Part No.	Inductance (10kHz/0.1V Typ)	Cs (max)	Turn Ratio	DCR(Ω max)	THD (max)	Hi–pot (Pri–Sec)	Schematic
EP13–1	2.0mH ± 10% (1–5 tie 2,4)		4:1(1–5:9–7 tie 2,4)	1.25:1.25:1.0 (1–4:2–5:9–7)	–72dB	2050VAC	D
EP13–2	410 µH ± 6% (1–5 tie 2,4)		2:1 (1–5:10–6 tie 2+4,7+9)	0.48:0.23 (1–4:10–7)	–72dB	1875VAC	E
EP13–3	400 µH ±6% (16–9 tie 11,14)	21pF (pri–sec)	4.25:1 (16–9:5–8 tie 11+14,7+6)	0.49:0.28:0.96 (14–9:5–7:1–3)	–68dB	1875VAC	F

TECHNICAL INFORMATION

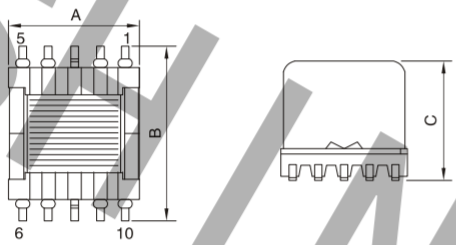


EP13–1 D

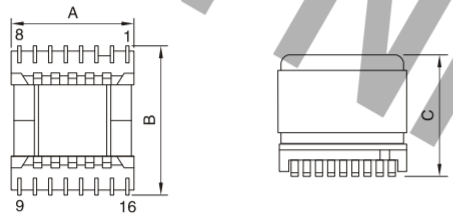
PHYSICAL CHARACTERISTICS



EP13–1



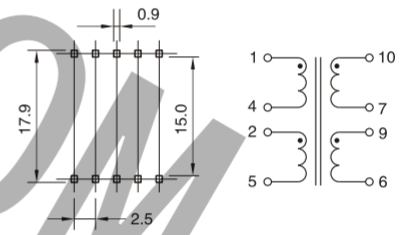
EP13–2



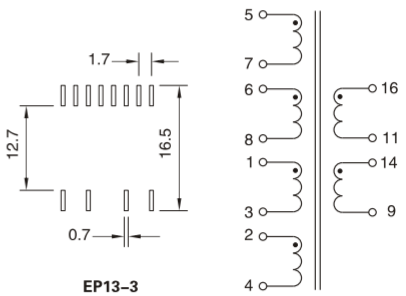
EP13–3

Dimensions(mm)

Part No.	EP13–1	EP13–2	EP13–3
A	14.2max	13.6max	14.0max
B	14.2max	17.9max	16.4max
C	13.0max	12.4max	12.6max



EP13–2 E



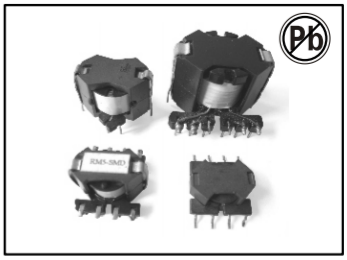
EP13–3 F

Note: All Dimensions in mm

SHINHOM

TELECOM TRANSFORMERS & POWER TRANSFORMERS

RM SMD SERIES



FEATURES:

- Low interwind capacitance
- Low total harmonic distortion(THD)
- Compact size and Surface–mounted
- Designed to meet UL, CSA, VDE, BABT safety standard

OPTIONS:

- Tape and reel is standard
- Bulk packaging available for smaller quantities
- Custom design available
- Tolerance: 5% is standard, tighter available
- RM 5, 6, SMD available
- RM 6, 8, 10, 12, 14 Power available

COMMON APPLICATIONS:

- Modem
- Fax machine, Hub
- Power Transformers
- ISDN, ADSL, HDSL, PABX
- Other telecommunication facilities etc
- Switching power supplies
- AC–DC, DC–DC converters

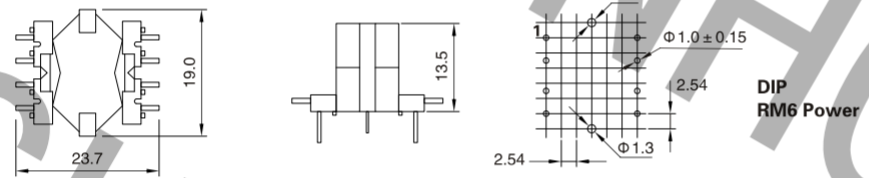
ELECTRICAL CHARACTERISTICS

Part No.	N1 Inductance (1kHz/0.1V Typ)	Turn Ratio	N1 DCR(Ω max)	Hi–pot (Pri–Sec)	Schematic
TP 6012	3.6mH min	N1:N2=1:2.5	4.5	1250V	1
TM 5001	2.5mH min	N1:N2:N3=1:1:3	6.5	1250V	2
TM 5002	1H min	N1:N2:N3:N4=1:1:1:1	30.0	1250V	3

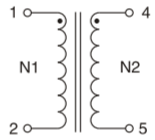
TECHNICAL INFORMATION

- Soldering temperature: 260℃ for 4 ± 1 seconds
- Operating temperature: 0℃ to 70℃
- Storage Temperature: –25℃ to 85℃
- Different package available per special request

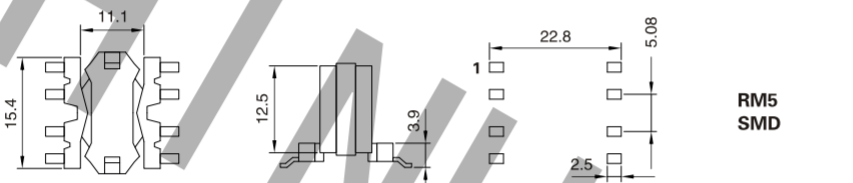
PHYSICAL CHARACTERISTICS



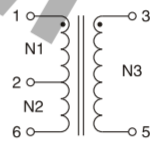
DIP
RM6 Power



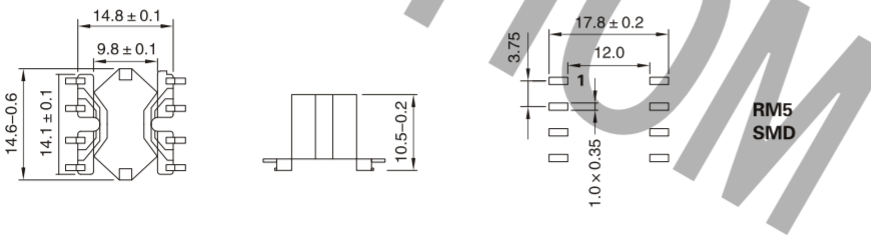
Schematic1



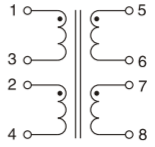
RM5
SMD



Schematic2



RM5
SMD



Schematic3

Note: All Dimensions in mm

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