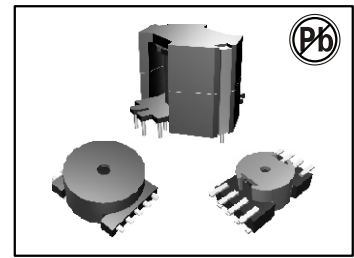


TELECOM TRANSFORMERS

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

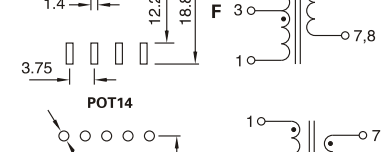
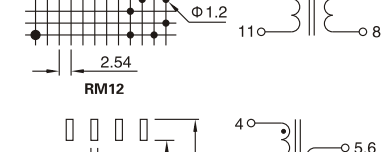
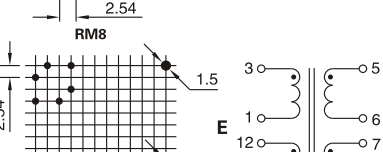
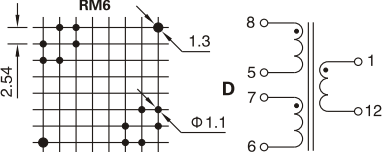
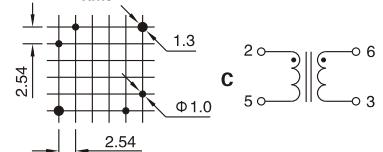
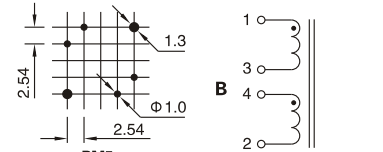
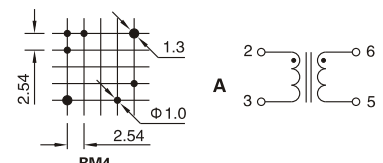
COMMON APPLICATIONS:

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

ELECTRICAL CHARACTERISTICS

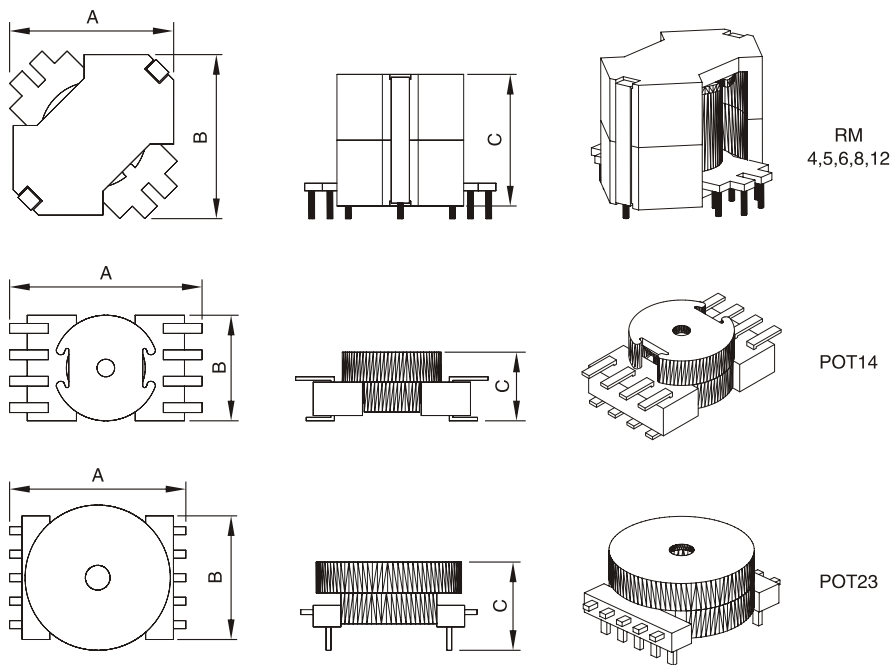
Part No.	Inductance(10kHz/0.1V Typ)	Turn Ratio	DCR(Ω max)	Hi-pot (Pri-Sec)	Schematic
RM4	45.2mH \pm 35%(3-4)	1:1(2-3:5-6)	2.5:2.5(2-3:5-6)	500VDC	A
RM5	43.5mH \pm 6%(1-3=3-4)	1:1(1-3:4-2)	4.6:4.6(1-3:4-2)	1000VDC	B
RM6	20mH \pm 6%(2-3 tie 6+5)	1:1(2-5:6-3)	4.0:4.0(2-5:6-3)	850VDC	C
RM8	3.0mH \pm 6%(8-6 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	140 μ Hmin(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	450 μ H \pm 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 \pm 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

TECHNICAL INFORMATION



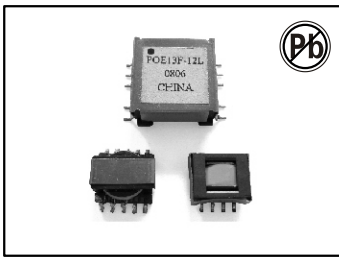
Note: All Dimensions in mm

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



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

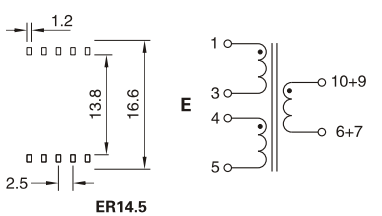
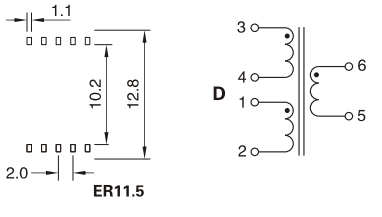
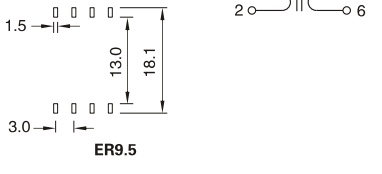
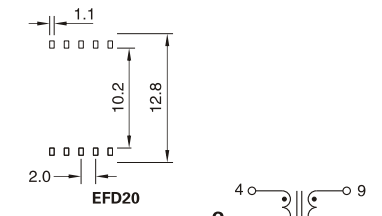
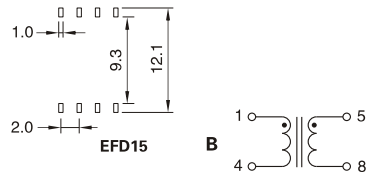
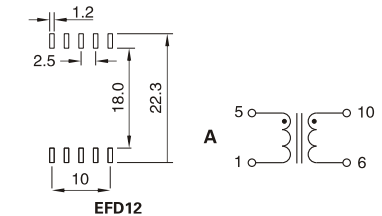
COMMON APPLICATIONS:

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

ELECTRICAL CHARACTERISTICS

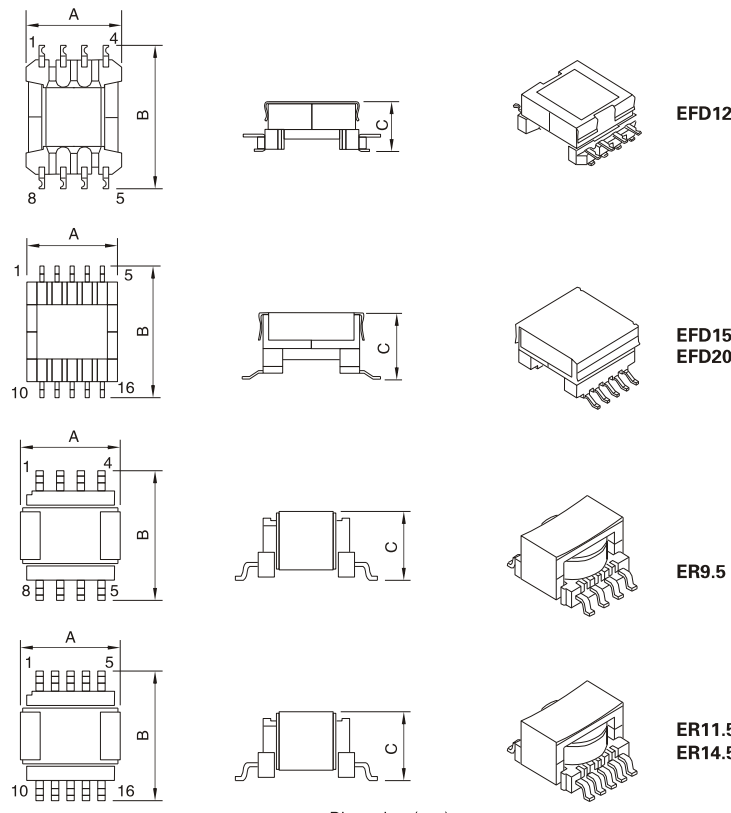
Part No.	Inductance(10kHz/0.1V Typ)	Turn Ratio	DCR(Ω max)	Hi-pot (Pri-Sec)	Schematic
EFD12	27 μ H \pm 10 % (3-4)	0.74:1:0.71 (3-4:1-2:6-5)	0.21:1.15:0.35 (3-4:1-2:6-5)	1250VAC	D
EFD15	4.0mH \pm 6% (1-5=10-6)	1:1 (1-5:10-6)	6.25:6.25 (1-5:10-6)	1000VDC	A
EFD20	20mH \pm 6% (1-5 tie 10+6)	1:1 (1-5:10-6)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

TECHNICAL INFORMATION



Note: All Dimensions in mm

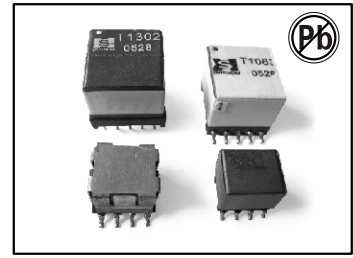
PHYSICAL CHARACTERISTICS



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

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

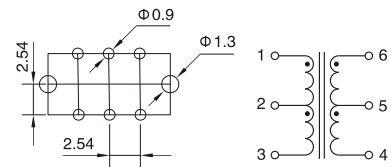
COMMON APPLICATIONS:

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

ELECTRICAL CHARACTERISTICS

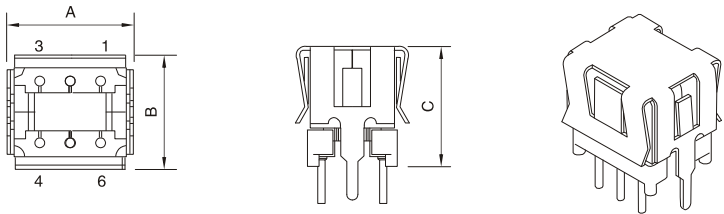
Part No.	Inductance (10kHz/0.1V Typ)	Cs (max)	Turn Ratio	DCR (Ω max)	THD (max)	Hi-pot (Pri-Sec)	Schematic
EP7-1	2.0mH min (1-3)	27pF (pri-sec)	1.66:1(1-3:6-4)	0.8:0.7(1-3:6-4)		1250VAC	A
EP7-2	530 μ H \pm 6% (6-4)	27pF (pri-sec)	1:1(1-3:6-4)	2.1:2.1(1-3:6-4)	-54dB	1250VAC	B
EP10	1.75mH min (8-2)	100pF (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

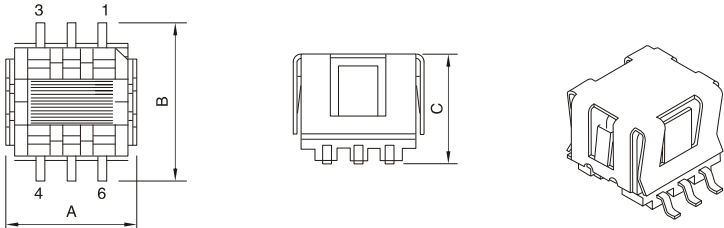


EP7-1 A

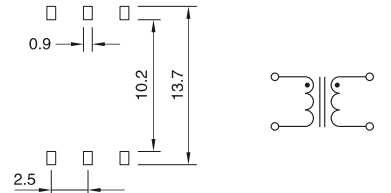
PHYSICAL CHARACTERISTICS



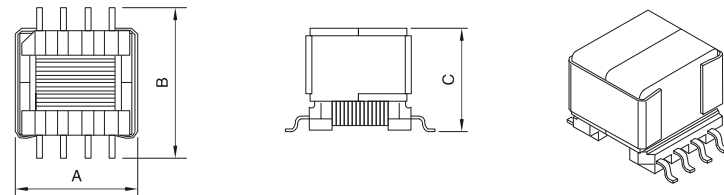
EP7-1



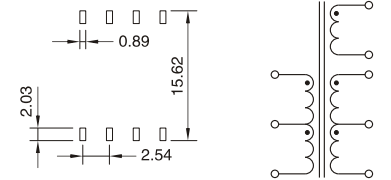
EP7-2



EP7-2 B



EP10

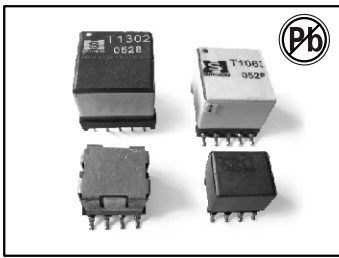


EP10 C

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



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

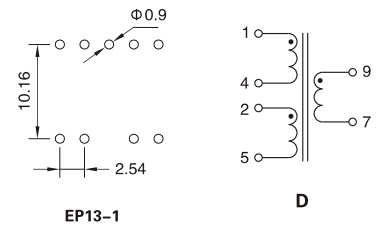
COMMON APPLICATIONS:

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

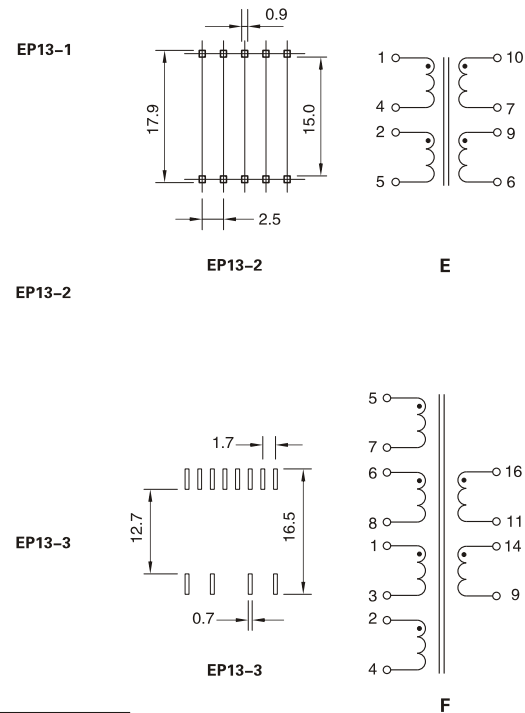
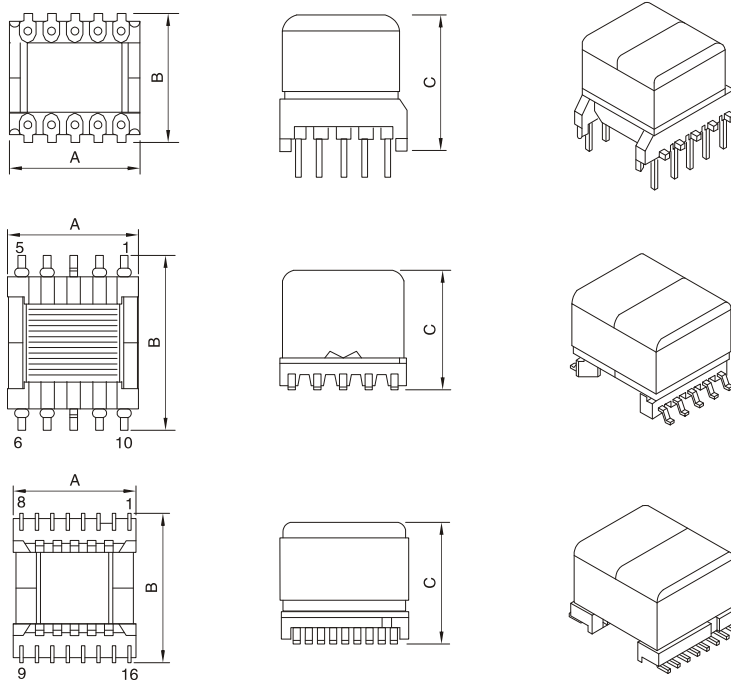
ELECTRICAL CHARACTERISTICS

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 \pm 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 μ H \pm 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 μ H \pm 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



PHYSICAL CHARACTERISTICS



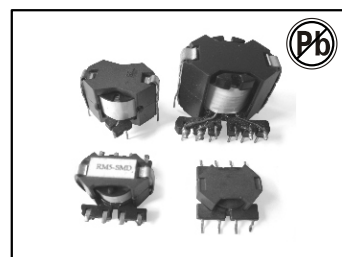
Dimensions(mm)

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

Note: All Dimensions in mm

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

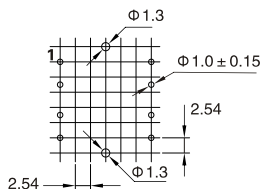
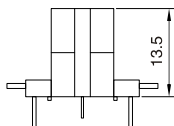
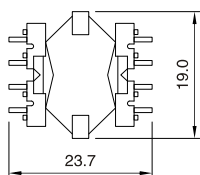
ELECTRICAL CHARACTERISTICS

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

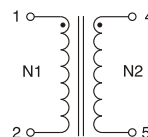
TECHNICAL INFORMATION

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

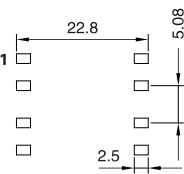
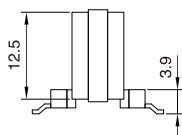
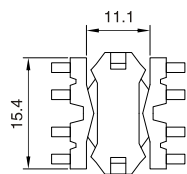
PHYSICAL CHARACTERISTICS



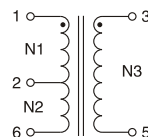
DIP
RM6 Power



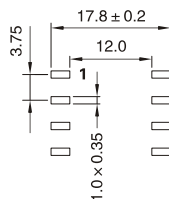
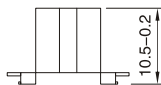
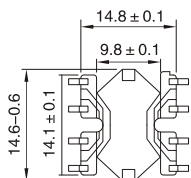
Schematic1



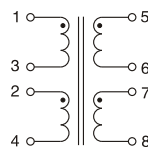
RM5
SMD



Schematic2



RM5
SMD



Schematic3

Note: All Dimensions in mm