

• ISDN S-Transformers: Single Pin -Versions

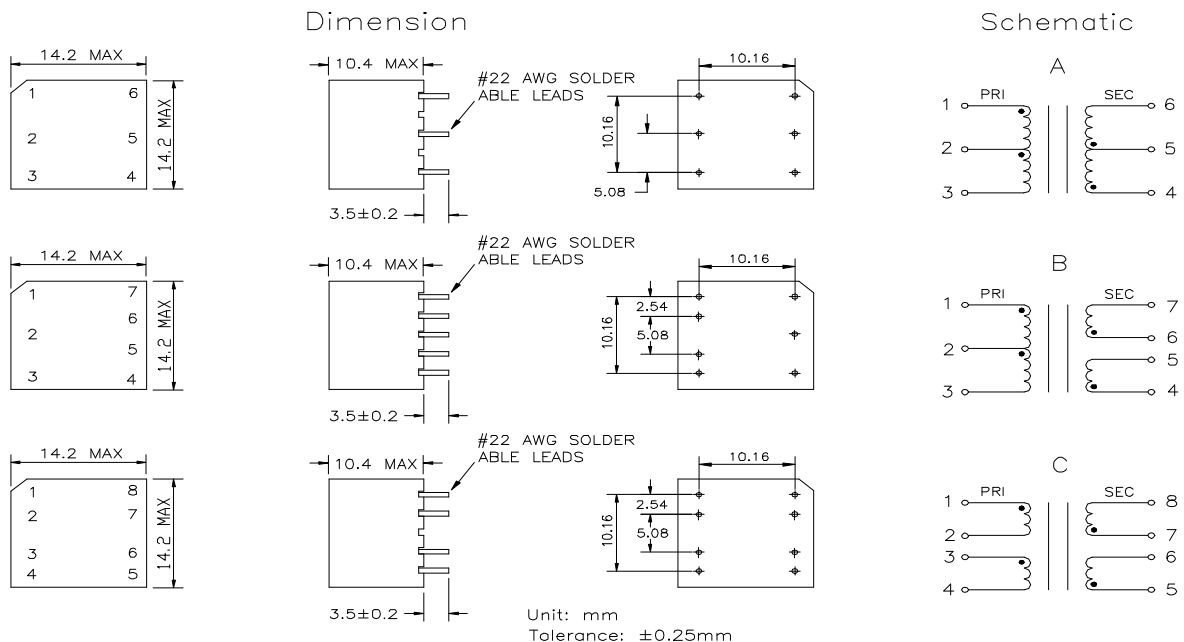
- MEET the pulse waveform template of CCITT I.430 when recommended transformer and chip pair are used
- PROVIDES 2.0KVrms voltage isolation

ELECTRICAL SPECIFICATIONS at25°C:

Part No. (p)	N (±2%)	L _H (mH MIN)	L _L (uH Max)	Cw/w (pF Max)	CD (pF Max)	DCR PRI (Ohms±25%)	DCR SEC (Ohms±25%)	Schem.
UT20993	1CT:1CT	22	5	100	42	2.4	2.4	A
UT20994	1CT:1.8CS	22	15	100	160	2.5	4.2	B
UT20995	1CT:2CT	22	15	100	80	2.5	4.3	A
UT20996	1CT:2.5CS	22	30	100	150	2.5	5.8	B
UT20998	1CS:2.5CS	22	15-40	100	110	2.5	5.8	C
UT20999	1CT:2CT	22	11	100	180	2.4	4.4	A

Symbols definition :

- 1.N: Primary : Secondary
- 2.CT: A center tapped winding
- 3.CS: A split center tap winding
- 4.L_H: The inductance on primary in series(f=10KHz V=100 mVrms)
- 5.L_L: The leakage inductance on secondary with on primary in series shorted(f=100KHz V=100 Vrms)
- 6.Cw/w: The coupling capacitance between on primary and secondary(f=10KHz V=100 mVrms)
- 7.CD: The distributive capacitance on primary in series(f=1MHz V=1Vrms)
- 8.DCR PRI: The winding on primary in series
- 9.DCR SEC: The winding on secondary in series



• ISDN S-Transformers: Dual Pin& Surface Mount Versions

MEET the pulse waveform template of CCITT I.430 when recommended transformer and chip pair are used

THE dual version contains both transmit and receive transformer
 PROVIDES 2.0KVrms isolation for LINE-SIDE and IC-SIDE

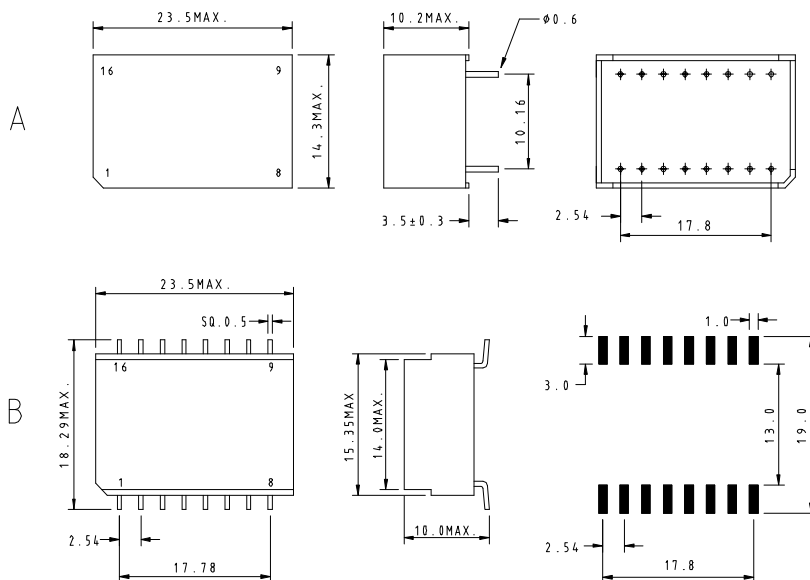
ELECTRICAL SPECIFICATIONS at25°C:

Part No.	Turns Ratio(±2%) (LINE-SIDE:IC-SIDE)		LH (mH MIN)	LL (uH Max)		Cw/w (pF Max)	CD (pF Max)		DCR LINE-SISE (Ohms±25%)		DCR IC-SIDE (Ohms±25%)		Dim.
	A	B	A & B	A	B	A & B	A	B	A	B	A	B	
UT20492	1:1	1:2	22	5	15	100	42	80	2.4	2.5	2.4	4.3	A
UT20492-TS	1:1	1:2	22	5	15	100	42	80	2.4	2.3	2.4	4	B
UT20493(-TS)	1:1	1:1	22	5	5	100	42	42	2.4	2.4	2.4	2.4	A(B)
UT20494(-TS)	1:1.8	1:1.8	22	15	15	100	160	160	2.5	2.5	4.2	4.2	A(B)
UT20495(-TS)	1:2	1:2	22	15	15	100	80	80	2.5	2.5	4.3	4.3	A(B)
UT20498(-TS)	1:2.5	1:2.5	22	8-40	8-40	100	110	110	2.5	2.5	5.8	5.8	A(B)
UT20499(-TS)	1:2	1:2	22	11	11	100	180	180	2.4	2.4	4.4	4.4	A(B)

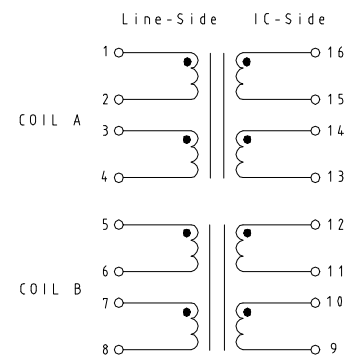
Symbols definition:

- 1.LH: The inductance on LINE-SIDE in series (f=10KHz V=100 mVrms)
- 2.LL: The leakage inductance on IC-SIDE with on LINE-SIDE in series short circuited(f=100KHz V=100Vrms)
- 3.Cw/w: The coupling capacitance between on LINE-SIDE and IC-SIDE (f=10KHz V=100 mVrms)
- 4.CD: The distributive capacitance on LINE-SIDE in series (f=1MHz V=1Vrms)
- 5.DCR LINE-SIDE: The winding on LINE-SIDE in series
- 6.DCR IC-SIDE: The winding on IC-SIDE in series

Dimension:



Schematic:



Unit: mm
 Tolerance: ±0.25mm



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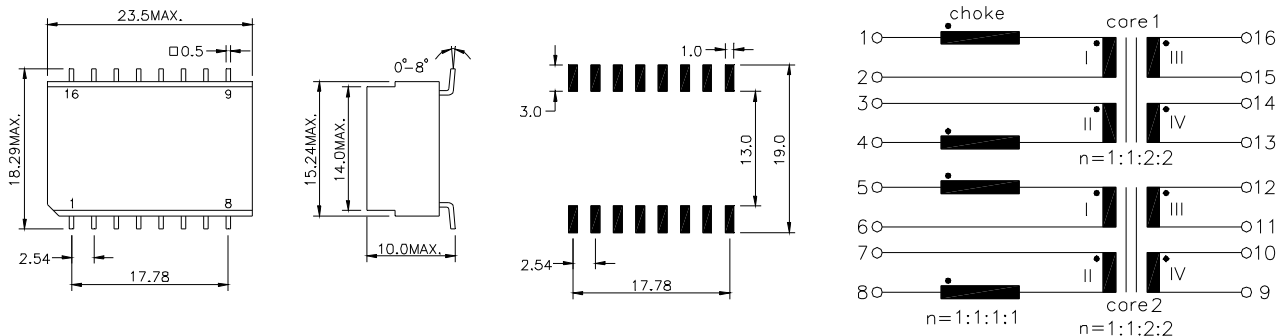
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- ISDN S-Modul:

Part No.	Turns Ratio($\pm 2\%$) (LINE-SIDE:IC-)	LH (mH MIN)	Cw/w (pF Max)	CD (pF Max)	DCR LINE-SIDE (Ohms $\pm 25\%$)	DCR IC-SIDE (Ohms $\pm 25\%$)	Choke:*	Dim.
UT20495CV-TS	1:1 2:2	22	110	80	3,5	5.0	4x47uH	B

*other choke -values are available upon request



- ISDN S-Transformers/Module: IC-Selection Guide

Designed and verified for operation with semiconductor manufacturers transmit/receive chips

CHOOSING THE RIGHT TRANSFORMER

MANUFACTURER	IC PART NUMBER	Single Through Hole		Dual Transmit & Receive Through Hole & SMT	Module Transmit & Receive + Choke
		Transmit	Receive		
AMD	AM79C30A,79C32A	UT20999		UT20499/-TS	
AT&T	T7250,T7256,T7259	UT20998		UT20498/ TS	
	T7903,T7901	UT20995		UT20495/-TS	UT20495CV-TS
MIETEC	MTC-2072	UT20995		UT20495/-TS	UT20495CV-TS
MITEL	MT8930	UT20995		UT20495/-TS	UT20495CV-TS
MOTOROLA	MC145474,MC145475	UT20993		UT20493/-TS	
	MC145574	UT20998		UT20498/-TS	
NATIONAL	TP3420,TP3421	UT20995	UT20992	UT20495/-TS	UT20495CV-TS
SGS THOMSON	ST5420,ST5421	UT20995		UT20495/-TS	UT20495CV-TS
SIEMENS	PEB2080,2081,2084 2085,2086,&PSB2186	UT20995		UT20495/-TS	UT20495CV-TS
YAMAHA	7405B	UT20995		UT20495/-TS	UT20495CV-TS



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