

# ISDN S- INTERFACE TRANSFORMERS/ MODULES

## SMALL SMT PACKAGE

- Meets CCITT I.430 pulse waveform template and impedance Profile.
- Developed for enhanced EMC performance.
- Excellent longitudinal balance.
- Low or high frequency choke options available.
- Withstands  $230\pm 5^{\circ}\text{C}$  IR Reflow.
- Operating temperature range  $0^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$
- Storage temperature range  $-20^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$
- 4mA Idc Max. Permissible Unbalance DC Current.
- 2000Vrms isolation.

### TRANSFORMERS/MODULES SELECTION GUIDE

Chip Manufacturer	Chip Designation	Dual Transformer	Module With 50uH CMC	Module With 100uH CMC	Module With 500uH CMC	Module With 5mH CMC
<b>AMD</b>	AM79C30A/32A	UT20795-00TS UT20775-00TS	UT20795-05TS UT20775-05TS	UT20795-10TS UT20775-10TS	UT20795-50TS UT20775-50TS	UT20795-5MTS UT20775-5MTS
<b>Cologne Chip</b>	HFC-S/S+/SP(A) SPCI(A)	UT20795-00TS UT20775-00TS	UT20795-05TS UT20775-05TS	UT20795-10TS UT20775-10TS	UT20795-50TS UT20775-50TS	UT20795-5MTS UT20775-5MTS
<b>Lucent</b>	T7234/T7250/ T7256/T7259	UT20798-00TS UT20778-00TS	UT20798-05TS UT20778-05TS	UT20798-10TS UT20778-10TS	UT20798-50TS UT20778-50TS	UT20798-5MTS UT20778-5MTS
	T7903	UT20795-00TS UT20775-00TS	UT20795-05TS UT20775-05TS	UT20795-10TS UT20775-10TS	UT20795-50TS UT20775-50TS	UT20795-5MTS UT20775-5MTS
<b>Mietec/Alcatel</b>	MTC-20172 MTK20276	UT20795-00TS UT20775-00TS	UT20795-05TS UT20775-05TS	UT20795-10TS UT20775-10TS	UT20795-50TS UT20775-50TS	UT20795-5MTS UT20775-5MTS
<b>Mitel</b>	MT8930/8931	UT20795-00TS UT20775-00TS	UT20795-05TS UT20775-05TS	UT20795-10TS UT20775-10TS	UT20795-50TS UT20775-50TS	UT20795-5MTS UT20775-5MTS
<b>Motorola</b>	MC145474/ 145475	UT20793-00TS UT20773-00TS	UT20793-05TS UT20773-05TS	UT20793-10TS UT20773-10TS	UT20793-50TS UT20773-50TS	UT20793-5MTS UT20773-5MTS
	MC145574	UT20798-00TS UT20778-00TS	UT20798-05TS UT20778-05TS	UT20798-10TS UT20778-10TS	UT20798-50TS UT20778-50TS	UT20798-5MTS UT20778-5MTS
	MC145575	UT20795-00TS UT20775-00TS	UT20795-05TS UT20775-05TS	UT20795-10TS UT20775-10TS	UT20795-50TS UT20775-50TS	UT20795-5MTS UT20775-5MTS
<b>National</b>	TP3420/3421	UT20795-00TS UT20775-00TS	UT20795-05TS UT20775-05TS	UT20795-10TS UT20775-10TS	UT20795-50TS UT20775-50TS	UT20795-5MTS UT20775-5MTS
<b>SGS Thomson</b>	ST5420/5421	UT20795-00TS UT20775-00TS	UT20795-05TS UT20775-05TS	UT20795-10TS UT20775-10TS	UT20795-50TS UT20775-50TS	UT20795-5MTS UT20775-5MTS
<b>Infineon (Siemens)</b>	PEB2080-81/-84/- 85/-86/2186 PSB2115/2154	UT20795-00TS UT20775-00TS	UT20795-05TS UT20775-05TS	UT20795-10TS UT20775-10TS	UT20795-50TS UT20775-50TS	UT20795-5MTS UT20775-5MTS
	PEB20590/20591 PSB3081/-86/ 3186/21150 PSB21381-84SX	UT20793-00TS UT20773-00TS	UT20793-05TS UT20773-05TS	UT20793-10TS UT20773-10TS	UT20793-50TS UT20773-50TS	UT20793-5MTS UT20773-5MTS
	PEB20590	UT20793-00TS UT20773-00TS	UT20793-05TS UT20773-05TS	UT20793-10TS UT20773-10TS	UT20793-50TS UT20773-50TS	UT20793-5MTS UT20773-5MTS
<b>Yamaha</b>	YM7405B	UT20795-00TS UT20775-00TS	UT20795-05TS UT20775-05TS	UT20795-10TS UT20775-10TS	UT20795-50TS UT20775-50TS	UT20795-5MTS UT20775-5MTS

\* CMC : COMMON MODE CHOKE

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# ISDN S- INTERFACE TRANSFORMERS/ MODULES SMALL SMT PACKAGE

## ELECTRICAL SPECIFICATION @25°C

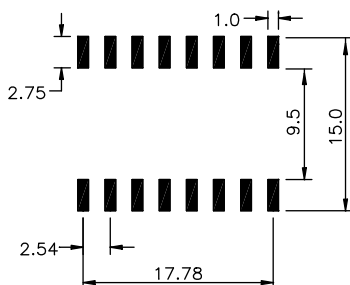
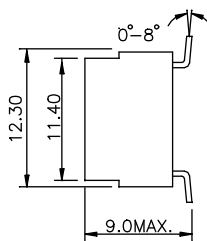
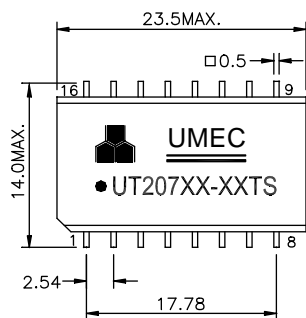
MODEL NO.	Turns Ratio (Line:Chip) (±2%)	Line Side Inductance (mH min.)	Interwinding Capacitance (pf max)	Line Side Leakage Inductance (uH max)	DCR Line Side (Ω ±15%)	DCR Chip Side (Ω ± 15%)	Schematics
UT20793-**TS	1split:1split	30	100	5	2.9	2.8	A
UT20773-**TS	1CT:1CT						B
UT20795-**TS	1split:2split	30	100	5	3.0	5.6	A
UT20775-**TS	1CT:2CT						B
UT20798-**TS	1split:2.5split	30	100	5	3.0	6.8	A
UT20778-**TS	1CT:2.5CT						B

MODEL NO.	Common mode choke									
	-00TS		-05TS		-10TS		-50TS		-5MTS	
	OCL (uH)	DCR (Ω max.)	OCL (uH)	DCR (Ω max.)	OCL (uH)	DCR (Ω max.)	OCL (uH)	DCR (Ω max.)	OCL (mH)	DCR (Ω max.)
UT20793-**TS	None		50	0.4	100	0.6	500	1.4	5.0	2.0
UT20773-**TS										
UT20795-**TS	None		50	0.4	100	0.6	500	1.4	5.0	2.0
UT20775-**TS										
UT20798-**TS	None		50	0.4	100	0.6	500	1.4	5.0	2.0
UT20778-**TS										

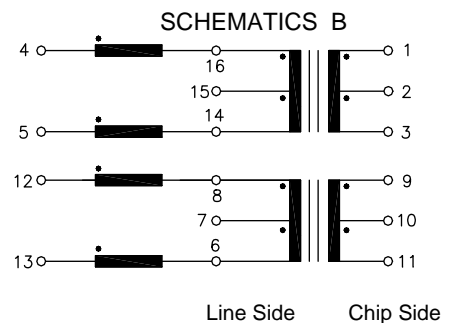
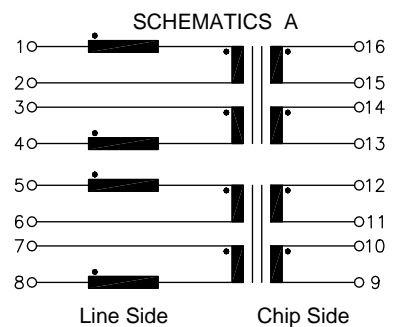
Test Condition:

1. Inductance : Main Transformers 10KHz 100mVrms. CMC 100KHz 20mVrms.
2. Leakage Inductance & Interwinding Capacitance : 100KHz 100mVrms.

## PACKAGES & SCHEMATICS



Unit : mm  
Tolerance:±0.25mm



\*Specifications are subject to change without prior notice.

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