

ISDN U_{KO}-INTERFACE TRANSFORMER

Surface Mount

- The U_{KO}-Interface is used to connected the ISDN Public Exchang and Network Termination (NT's).
- The U_{KO}-Interface transmission code 4B3T and 2B1Q when consumer use the ISDN chips of different manufacturers the personal application.

ISDN-IC/U_{KO}-Interface Transformer Selection

Chip Manufacturer	Chip Designation	UMEC Transformer	Configuration	Transmission Code
Infineon (Siemens)	PEB2090	UT21902S	RM6	4B3T
		UT21904S	RM6	
		UT21907S	RM6	
		UT21972S	RM6	
	PEB2091	UT21901S	RM6	2B1Q
		UT21906S	RM6	
		UT21963S	RM6	
		UT35473S	POT 18*11	
AMD	AM20901	UT21901S	RM6	2B1Q
		UT21906S	RM6	
		UT21963S	RM6	
	AM20902	UT21902S	RM6	4B3T
		UT21904S	RM6	
		UT21907S	RM6	
		UT21972S	RM6	
	Motorola	MC145472	UT20579S	POT 23*11
MC145572		UT20628S	POT 23*11	2B1Q
		UT21903S	RM6	
AT&T	T7256	UT21921S	POT 23*11	2B1Q
	T7264			
National	TP3410	UT20583S	POT 23*11	2B1Q
		UT21911S	RM6	
		UT21913S	RM6	
SGS Thomson	ST5410	UT20583S	POT 23*11	2B1Q
		UT21911S	RM6	
		UT21913S	RM6	
	ST5411	UT20583S	POT 23*11	2B1Q
		UT21911S	RM6	
		UT21913S	RM6	

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ELECTRICAL SPECIFICATION @25°C

UMEC Model No.	Turns Ratio (Line:Chip) ($\pm 2\%$)	Line Side Pins	Line Side Inductance (mH)	DC BIAS (mA max)	Leakage Inductance (μ H)	Coupling capacitance (pF)	DCR Line Side (Ω)	DCR Chip Side (Ω)	Isolation	Package & Schematic
UT20583S	1.5:1	(4-2)	28.0 \pm 5%	60			20.0 max.	3.0 max.	2000 Vac	POT 23*11/B
UT20628S	1.25:1	(1-5)	28.0 \pm 5%	80			12.0 max.	7.0 max.	2000 Vac	POT 23*11/B
UT20631S	1.5:1	(4-2)	27.0 \pm 5%	60			20.0 max.	3.0 max.	2500 Vac	POT 23*11/B
UT21901S	1.6:1	(1-4)	14.5 \pm 10%	50	71 max.	150 max.	5.6 \pm 15%	4.1 \pm 15%	2000 Vac	RM6/A
UT21902S	1.32:1	(1-4)	5.5 \pm 10%	50	22 max.	125 max.	3.3 \pm 15%	2.85 \pm 15%	2000 Vac	RM6/A
UT21903S	1.25:1	(1-4)	28.0 \pm 5%	50	120 max.	80 max.	12.0 max.	9.0 max.	2000 Vac	RM6/A
UT21904S	1.32:1	(5-8)	7.6 \pm 8%	55	50 max.	75 max.	2.4 max.	2.7 max.	2000 Vac	RM6/A
UT21906S	1.6:1	(1-4)	13.3 \pm 10%	60	45 max.	70 max.	5.0 max.	5.0 max.	2000 Vac	RM6/A
UT21907S	1.32:1	(1-4)	7.7 \pm 10%	60	40 max.	45 max.	3.8 max.	3.8 max.	2000 Vac	RM6/A
UT21911S	1.5:1	(1-4)	27.0 \pm 10%	40	150 max.	150 max.	17.0 max.	13.0 max.	2500 Vac	RM6/A
UT21913S	1.5:1	(1-4)	27.0 \pm 5%	60			20.0 max.	3.0 max.	2000 Vac	RM6/A
UT21921S	1.5:1	(9-7)	81.5 \pm 5%	30	100~172		10.3 nom.	21.3 nom.	1500 Vac	POT 23*11/B
UT21963S	1.6:1	(1-4)	13.3 \pm 10%	60	70 max.	90 max.	4.9 nom.	4.8 nom.	2000 Vac	RM6/A
UT21972S	1.32:1	(1-4)	6.9 \pm 10%	60	70 max.	65 max.	4.5 nom.	3.4 nom.	2000 Vac	RM6/A
UT35473S	1.65:1	(1-4)	15.5 \pm 16%	50	75 max.		4.4~6.0 max.	25~345 max.	2000 Vdc	POT 18*11/C

- Inductance : the inductance of windings on line side in series (at 10KHz 100mV).
- Coupling capacitance : the coupling capacitance between of windings on line side and the windings on chip side (at 10KHz 100mV).
- Leakage inductance : the leakage inductance of windings on line side with windings on chip side shorted (at 100KHz 100mV).

*Specifications are subject to change without prior notice.



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