

ISDN U-INTERFACE TRANSFORMERS

Link-PP Int'l Technology

※For applications with 2B1Q and 4B3T Coding

※For ROHS part add suffix NL

※RoHS "NL" peak solder rating 235°C

※ Transformer models with 2000 Vrms to 3000 Vrms minimum isolation



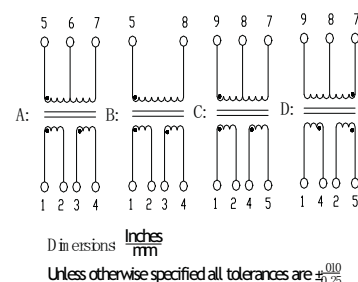
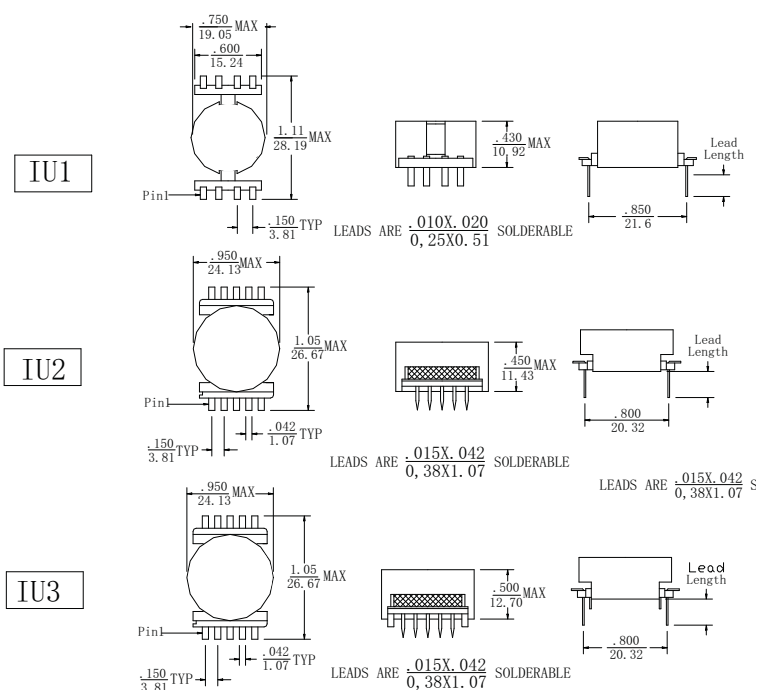
Electrical Specifications @ 25°C --- Operating Temperature 0°C to 70°C

Isolation Voltage (Vrms MIN)	Part Number	Turns Ratio Line:Chip (±3%)	Line Side Pins	OCL Line side (mH)	DCR Line Side (Ω)	DCR Chip Side (Ω)	IDC (mA)	Lead length	Package/ Schematic
2000 Vrms	LPK85575	1.65:1	(1-4)	13.0-18.0	5.2±15%	3.0±15%	50	0.15±0.03(3,81±0,76)	IU1/A
	LPK85578	1.32:1	(1-4)	7.0-8.3	2.4MAX	2.7MAX	55	0.15±0.03(3,81±0,76)	IU1/B
	LPK85579	2.00:1	(1-5)	25.5-28.5	11.6 MAX	6.4 MAX	60	0.17±0.04(4,32±1,02)	IU2/C
	LPK85581	1.50:1	(4-2)	14.2-15.8	16.0 MAX	2.5 MAX	60	0.17±0.04(4,32±1,02)	IU2/D
	LPK85583	1.50:1	(4-2)	25.6-29.0	20.0 MAX	3.0 MAX	60	0.16±0.03(4,06±0,76)	IU2/D
	LPK85584	1.50:1	(1-5)	25.6-29.0	20.0 MAX	3.0 MAX	60	0.17±0.04(4,32±1,02)	IU2/C
2500 Vrms	LPK88628	1.25:1	(1-5)	26.5-29.5	12.0 MAX	7.0 MAX	80	0.16±0.03(4,06±0,76)	IU2/C
	LPK88631	1.50:1	(4-2)	25.6-29.0	20.0 MAX	3.0 MAX	60	0.13±0.03(3,30±0,76)	IU3/D
	LPK88681	1.50:1	(1-5)	25.6-28.4	20.0 MAX	3.0 MAX	60	0.13±0.03(3,30±0,76)	IU3/C
3000 Vrms	LPK88668	1.25:1	(1-5)	26.5-29.5	13.0 MAX	7.5 MAX	80	0.13±0.03(3,30±0,76)	IU3/C
	LPK88669	1.65:1	(1-4)	13.0-18.0	5.2±15%	3.0±15%	50	0.13±0.03(3,30±0,76)	IU1/A

NOTE: LPK85575,LPK88628,LPK88668,LPK88669 operating temperature range is -40°C to +85°C.

Mechanicals

Schematics



Transformer Selection

Company	Chip	Coding	Transformer 2000 Vrms Isolation	Transformer High Isolation Models
Motorola	MC145472	2B1Q	LPK85579	----
Motorola	MC145572	2B1Q	LPK88628	LPK88668
National	TP 3410	2B1Q	LPK85583 LPK85584	LPK88631 LPK88681
Siemens	PEB 2091	2B1Q	LPK85575	LPK88669
Siemens	PEB 2090 PEB 20901	4B3T	LPK85578	----
Thomson	SD 5411	2B1Q	LPK85581	----

Additional Specifications

Return Loss (2B1Q) (10 and 25KHz)	Longitudinal Balance (2 B1Q)	Longitudinal Balance (4 B3T)	Surge Voltage Resistibility (ALL)
20 dB MIN	281 Hz to 40 KHz 55 dB MIN	5 KHz 20dB MIN	Metallic @ 800 V Peak 10/700 μ sec
----	Above 40 KHz -20 dB/decade	20 KHz-150 KHz 40dB MIN	Long. @ 2400 V peak 10/560 μ sec
----	----	1MHz 36dB MIN	----