

ISDN U-INTERFACE TRANSFORMERS

FEATURES

- For Applications with 2B1Q and 4B3T Coding
- Matched to leading transceiver ICs
- Parts meet ANSI T1.601-1992 and ETSI ETR 080
- Isolation Voltage: 2000 Vrms



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

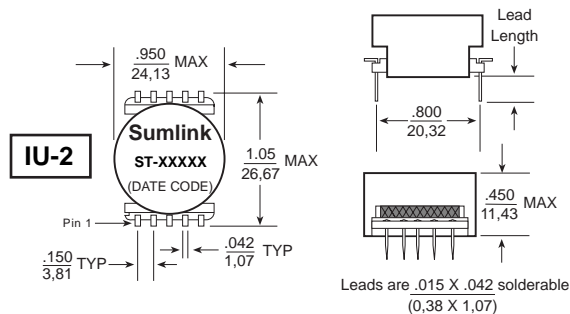
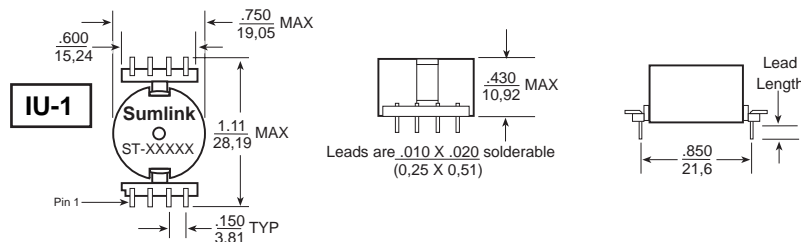
Part Number	Turns Ratio Line:Chip (±3%)	Line Side Pins	OCL Line side (mH)	DCR Line Side (Ω)	DCR Chip Side (Ω)	IDC (mA)	Lead Length	Package/Schematic
ST-85575*	1.65:1	(1-4)	13.0-18.0	5.2 ±15%	3.0 ±15%	50	0.15 ±0.03 (3,81 ±0,76)	IU-1/A
ST-85578	1.32:1	(1-4)	7.0-8.3	2.4 MAX	2.7 MAX	55	0.15 ±0.03 (3,81 ±0,76)	IU-1/B
ST-85579	2.00:1	(1-5)	25.5-28.5	11.6 MAX	6.4 MAX	60	0.17 ±0.04 (4,32 ±1,02)	IU-2/C
ST-85581	1.50:1	(4-2)	14.2-15.8	16.0 MAX	2.5 MAX	60	0.17 ±0.04 (4,32 ±1,02)	IU-2/D
ST-85583	1.50:1	(4-2)	25.6-29.0	20.0 MAX	3.0 MAX	60	0.16 ±0.03 (4,06 ±0,76)	IU-2/D
ST-85584	1.50:1	(1-5)	25.6-29.0	20.0 MAX	3.0 MAX	60	0.17 ±0.04 (4,32 ±1,02)	IU-2/C
ST-88628*	1.25:1	(1-5)	26.5-29.5	12.0 MAX	7.0 MAX	80	0.16 ±0.03 (4,06 ±0,76)	IU-2/C

*Operating temperature range: -40°C to 85°C.

Additional Specifications

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

Mechanicals



Dimensions: Inches
mm

Unless otherwise specified, all tolerances are ± .010 / 0,25

Transformer Selection

Company	Chip	Coding	Transformer
Motorola	MC145472	2B1Q	ST-85579
Motorola	MC145572	2B1Q	ST-88628
National	TP 3410	2B1Q	ST-85583 ST-85584
Siemens	PEB 2091	2B1Q	ST-85575
Siemens	PEB 2090 PEB 20901	4B3T	ST-85578
Thomson	SD 5411	2B1Q	ST-85581

Schematics

