

T3/DS3/E3/STS-1 TRANSFORMERS

FEATURES

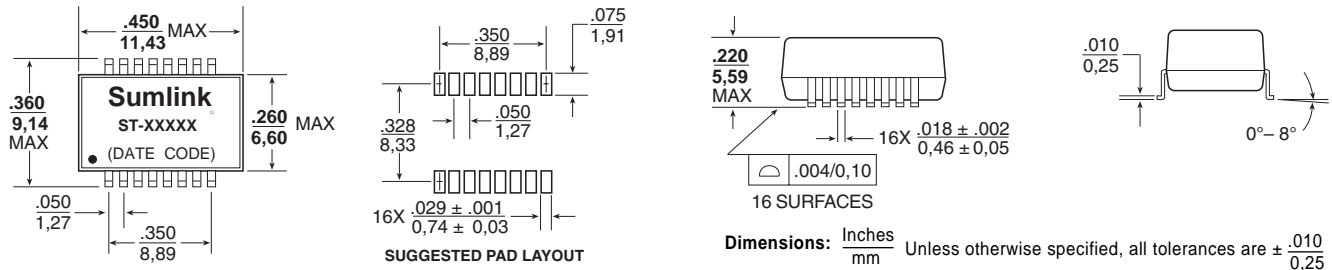
- Dual SMT package contains both transmit and receive transformers
- Return loss meets requirements of G.703
- Isolation Voltage: 1500 Vrms



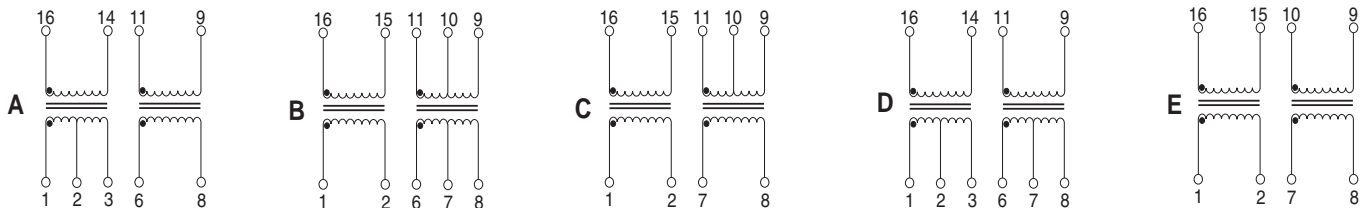
Electrical Specifications @ 25°C — Operating Temperature -40°C to +85°C

Part Number	Turns Ratio (±2%)		OCL Primary @ 25°C (μH MIN)		L _L (μH MAX)		C _{ww} (pF MAX)		Isolation Voltage (Vrms MIN)	Schematic	Primary Pins	
	TX	RX	TX	RX	TX	RX	TX	RX			TX	RX
ST-83020	1:2CT	1:1	40	100	.120	.120	10	10	1500	A	16-14	6-8
ST-83021	1:2CT	1:2CT	40	40	.100	.100	10	10	1500	D	16-14	11-9
ST-83023	1:1	1:1	40	40	.110	.110	10	10	1500	E	1-2	7-8
ST-83025	1CT:1CT	1:1	100	100	.120	.120	10	10	1500	B	6-8	16-15
ST-83026	1:2CT	1:1	100	100	.120	.120	10	10	1500	C	7-8	16-15

Mechanicals



Schematics



IC CROSS REFERENCE: T3/DS3/E3/STS-1

IC Manufacturer	IC Part Number	DUAL SMT	SINGLE SMT		SINGLE THT		SINGLE THT 3KVrms	
		EXT TEMP	TX	RX	TX	RX	TX	RX
Cicada	CIS7512/3/4/6/8	ST-83025	ST-85967	ST-85967	ST-85966	ST-85966	ST-88629	ST-88629
Exar	XRT7295/E,296/8 XRT73L00/2/3/4/6/12 XRT3LC03A/04A,R12 XRT7300/7302	ST-83025 ST-83025 ST-83025 ST-83025	ST-85967 ST-85967 ST-85967 ST-85967	ST-85967 ST-85967 ST-85967 ST-85967	— ST-85966 ST-85966 ST-85966	ST-85966 ST-85966 ST-85966 ST-85966	— ST-88629 ST-88629 ST-88629	ST-88629 ST-88629 ST-88629 ST-88629
Agere (Lucent)	T7296	ST-83025	ST-85967	ST-85967	ST-85966	ST-85966	ST-88629	ST-88629
Maxim (Dallas)	DS3150	—	ST-85968	ST-85968	ST-85969	ST-85969	ST-88630	ST-88630
Mindspeed (Conexant)	CN28333/332/331 M28335 M28352/3/4/6	ST-83025 ST-83025 ST-83025	ST-85967 ST-85967 ST-85967	ST-85967 ST-85967 ST-85967	ST-85966 ST-85966 ST-85966	ST-85966 ST-85966 ST-85966	ST-88629 ST-88629 ST-88629	ST-88629 ST-88629 ST-88629
TDK	78P2241/2/3/4 78P2241B 78P7200/7200L 78P7203L/7204L 78P2362/2361	ST-8320/ST-83026 ST-8320/ST-83026 ST-8320/ST-83026 ST-8320/ST-83026 ST-8320/ST-83026	ST-85968 ST-85968 ST-85968 ST-85968 ST-85968	ST-85967 ST-85967 ST-85967 ST-85967 ST-85967	ST-85969 ST-85969 ST-85969 ST-85969 ST-85969	ST-85966 ST-85966 ST-85966 ST-85966 ST-85966	ST-88630 ST-88630 ST-88630 ST-88630 ST-88630	ST-88629 ST-88629 ST-88629 ST-88629 ST-88629
Transwitch	MRT TXC-02050 ART TXC-02020 ARTE TXC-02021 DART TXC-2030,DS3 DART TXC-2030,E3 DS3LIM-SN, TXC20153G E3LIM TXC-20163	ST-8320/ST-83026 ST-83025 ST-83025 ST-83025 ST-8320/ST-83026 ST-83025 ST-8320/ST-83026	ST-85968 ST-85967 ST-85967 ST-85967 ST-85968 ST-85967 ST-85968	ST-85967 ST-85967 ST-85967 ST-85967 ST-85967 ST-85967 ST-85967	ST-85969 ST-85966 ST-85966 ST-85966 ST-85969 ST-85966 ST-85969	ST-85966 ST-85966 ST-85966 ST-85966 ST-85966 ST-85966 ST-85966	ST-88630 ST-88629 ST-88629 ST-88629 ST-88630 ST-88629 ST-88630	ST-88629 ST-88629 ST-88629 ST-88629 ST-88629 ST-88629 ST-88629