

P/N: 4S1142 DATA SHEET

1. Eight transformers in a surface mount package supports four transmit and four receive channels
2. Cross talk : -65dB or better
3. Models matched to leading quad and dual T1/E1/CEPTISDN-PRI transceivers .
4. Operating temperature range: 0°C to +70°C

1. Isolation HI-POT:1500 Vrms
2. Turns Ratio($\pm 2\%$) : TX=1:2.4, RX=1:1
3. TX/RX OCL.: 1.0 mH Min /1.0 mH Min
4. TX/RX. Cw/w: 35 pF Max/35 pF Max
5. TX/RX L/L: 0.5 μ H Max/0.5 μ H Max
6. TX. Primary PINS: 1-2, 8-9, 11-12, 18-19
7. RX. Primary PINS : 25-24, 28-27, 35-34, 38-37

Figure 1 is a schematic diagram of a 16-channel transformer-based architecture. It shows 16 input/output pairs connected through a central transformer block. The inputs are labeled 1 through 19, and the outputs are labeled 22 through 40. The transformer block is divided into two sections, each with a 1:2.4 ratio. The inputs are grouped into four sets of four, each connected to a specific output group. The transformer block is labeled with ratios 1:2.4 and 1:1.

