10BASE-T NETWORK COMPONENTS

960065A

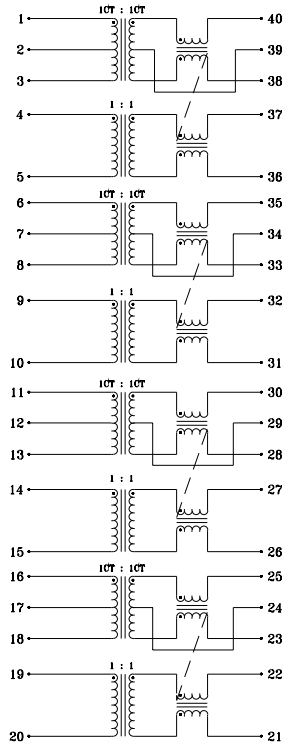
- Designed for use with AMD's eIMR (79C984A), eIMR+ (79C985) and IMR2 (79C983)/QuIET (79C988) chipsets
- Filterless quad, 4-port designs with common footprints and pinouts offering choice of configurations for customized EMI suppression
- Best per port space and cost efficiency
- Low profile, surface mount packaging, rated to 225ºC peak IR reflow temperature
- 2000 Vrms isolation

ELECTRICALS AT 25ºC

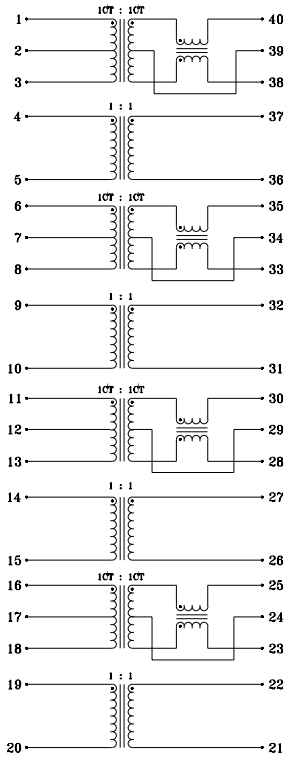
Part No.	Insertion Loss (dB) Max 1-10MHz	Return Loss (dB) Min 5MHz-10MHz	Crosstalk (dB) Min 1MHz-10MHz	CM-CM Rej (dB) Min 10-30MHz	100MHz	Schematic
S553-5999-35	-1.0	-18	-40	-40	-30	A
S553-5999-76	-1.0	-18	-40	-40	-30	B
S553-5999-77	-1.0	-18	-40	N/A	N/A	C

SCHEMATICS

A



B



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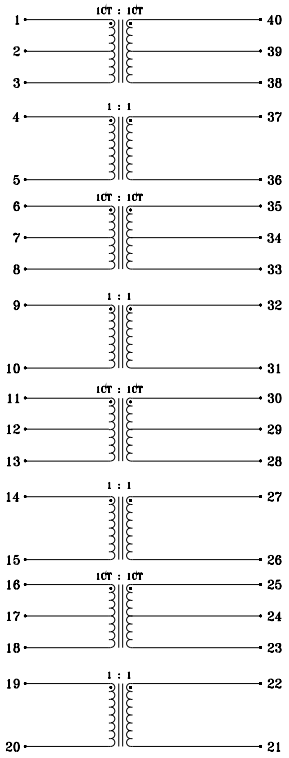
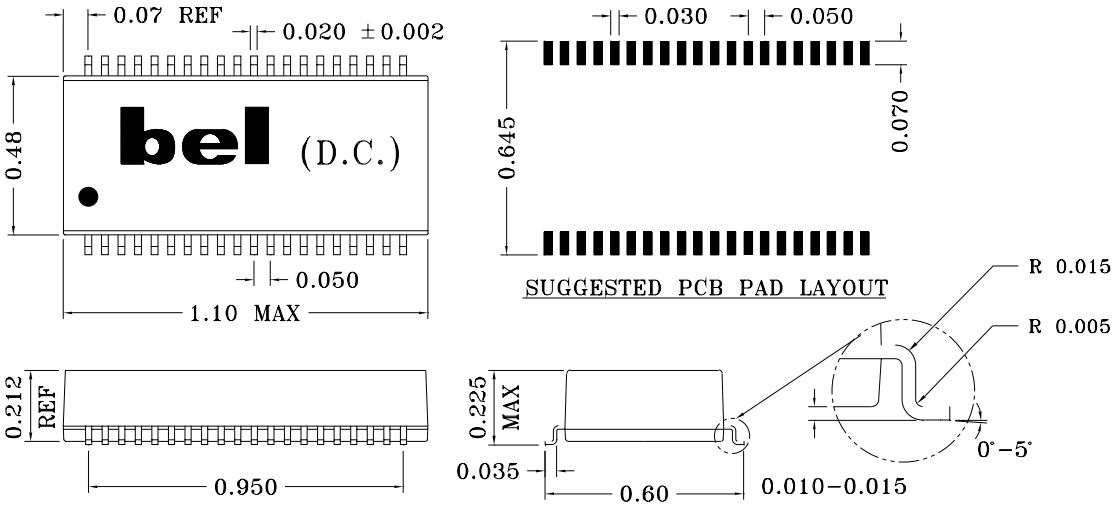
SCHEMATICS (CONT'D)

C



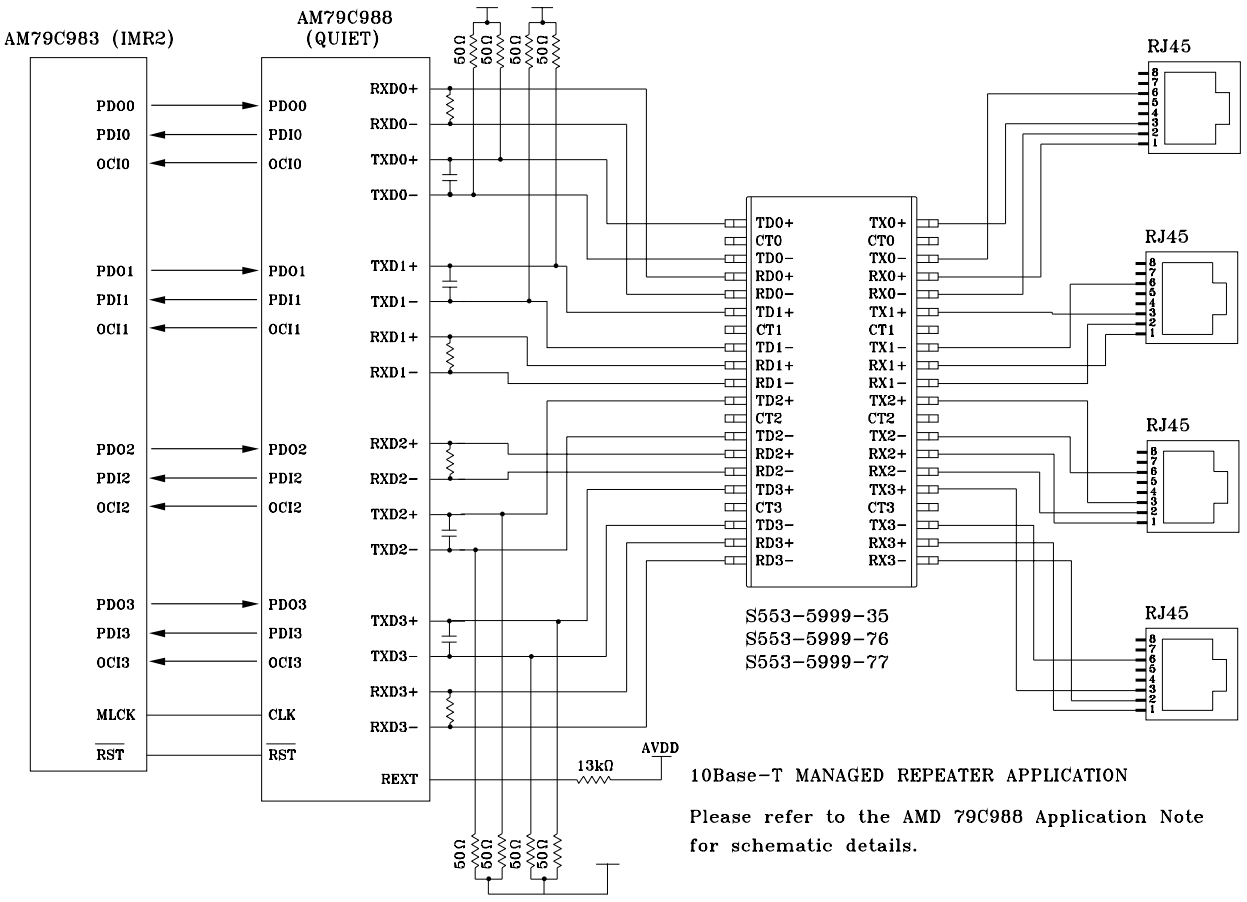
MECHANICAL



Specifications subject to change without notice.

10BASE-T NETWORK COMPONENTS

APPLICATION CIRCUIT



10Base-T MANAGED REPEATER APPLICATION

Please refer to the AMD 79C988 Application Note for schematic details.

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10BASE-T NETWORK COMPONENTS

960065A

APPLICATION NOTES

- Bel has developed a variety of quad, 4-port part types for use with AMD quad, 4-port PHY devices that incorporate digital filtering techniques within the silicon itself. Bel's "filterless magnetics" are optimized for this specific application and create a very cost efficient design solution. Each Bel part type contains 4 channels of transmit and receive transformers to provide for wave shaping, high voltage isolation and EMI noise suppression.
- Bel has designed these parts as a family of parts with common footprint and pinouts to enable the designer to customize the use of common mode choke for optimum system performance.
- In multi-port system applications, good PCB layout and proper grounding techniques are very critical to achieve FCC class A and B equipment approvals. Bel recommendations are available and can be provided by contacting our engineering department or your local sales representative.
- Bel's low profile, surface mount packaging is ideal for high speed pick and place machinery. Parts can be shipped on tape and reel for high speed placement. Construction processes have been implemented for thermal compatibility with high temperature IR reflow assembly processing. Post dipping of leads assist with PC board solderability. Each part is optically inspected to meet rigid coplanarity requirements.

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