CS239A & CS239E T1 Mini Span Line Repeaters

Regenerate 2-Way 1.544 Mb/s signals on T1 spans

Each protected, low powered, CS239 T1 minirepeater contains two regenerators.

Designed to work in Charles apparatus cases and other standard T1 housings, the CS239A and CS239E are identical in function except the CS239E repeater provides greater immunity to 60 Hz induction. The CS239A is a 1-way unit, and the CS239E is a 2-way unit.

Features

- Dual regenerators for use on 1.544 Mb/s 2way T1 span lines
- Rugged surge protection
- Front-panel power LED (green)
- Automatic Line Build-Out (ALBO) to accommodate a wide range of receive signals (0.0 to 35 dB)
- Thru or Loop power
- Separate or common fault locate output
- Compatibility with AMI or B8ZS line coding
- High-immunity to induced AC
- Rugged, nonmetallic outer case





Electrical Specifications

Line repeater type

Regenerative transmit and receive

Line signal type Bipolar at 1.544 Mbps ±200 bps

Repeater line signal pulse amplitude 2.4 to 3.0 V peak Repeater line signal pulse width 324 ±30 nsec.

Repeater line signal pulse overshoot 10 to 30 percent of pulse height,

20 percent nominal

Repeater line signal pulse rise & fall time 100 nsec maximum

Port impedance 100 ohms nominal at 772 KHz

Receive line build-outAutomatic, 0.0 to 35 dBAC longitudinal immunityCS239E, 1000 mA P-P;CS239A, 750 mA P-P

Surge protection Input/output to ground, ±2.5 KV;

metallic ±1000 V

Line current57 to 63 mAVoltage drop at 60 MA8.0 V nominal

Physical Specifications

Height	Width	Depth	Weight	Temperature	Humidity
2.59""	0.76"	6.0""	5.5 oz	-40° to +149° F	to 95%
(6.58 cm)	(1.93 cm)	(15.24 cm)	(155.93 gm)	-40° to +65° C (n	o condensation)





Dependable Solutions, Superior Support

- Field-proven and unequaled 24-hour technical support
- Individualized application consultation
- Superior quality (ISO 9000/TL 9000 registered)

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