

# CHO-DROP® EMI Absorbers

## CHO-DROP EMI Absorbers

CHO-DROP EMI absorbers are discrete components designed to reduce radiation from digital signal lines without significantly adding to propagation delay. They will normally suppress radiation from a given lead by 10-15 dB, and have a propagation delay of less than 10 nanoseconds.

Placed in series with a signal line, these devices will suppress EMI emissions without grounding, shielding or by-pass capacitors. They are supplied in reels for use with automatic insertion equipment.

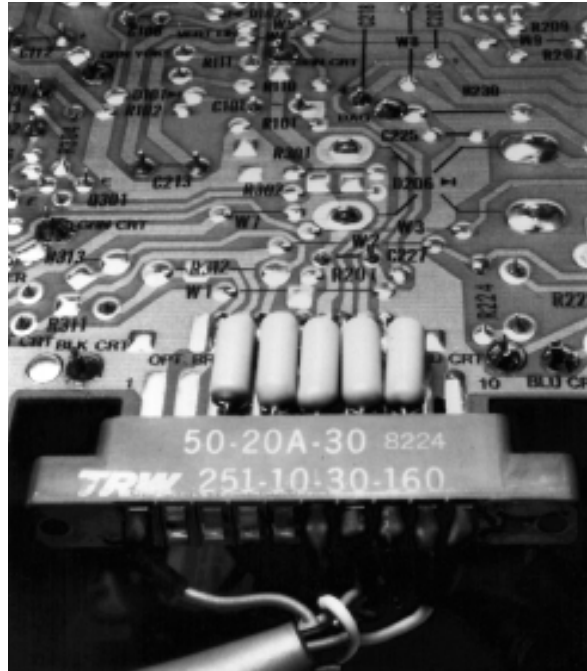
As a suppressor for unshielded cables, CHO-DROP absorbers should be put in series with each connector lead, including ground leads. To suppress radiation from a clock, place in series with a clock lead near the output of the clock driver. Undesired signals appearing at the power supply input may be reduced with a CHO-DROP absorber between the power supply output and the PCB.

### Features

- Flat absorption characteristics means no ringing (unlike ferrite beads)
- No grounding or shielding required
- dB insertion loss from 50-200 MHz
- Will not affect signal transmission
- Cost effective
- Supplied on reels for automatic insertion

### Specifications

Insertion Loss (in 50-ohm circuit):  
 50 MHz ..... 12 dB  
 100 MHz ..... 15 dB  
 150 MHz ..... 15 dB  
 200 MHz ..... 15 dB  
 Propagation Delay ..... <10 nanoseconds  
 Current Capacity ..... 500 mA  
 Color ..... Aquamarine



Five CHO-DROP absorbers are shown installed in series with each connector lead on a printed circuit board.

Table 1 Ordering Information

CHO-DROP Part No.	Size (Typ.)	Leads
80-10-9714-1000	0.185 inch (4.7 mm) dia. 0.550 inch (13.97 mm) long	#22 gauge solder-coated copper 1.10 inch (27.94 mm) long