

CHOMERICS
a GRACE company

LEADER IN EMI SHIELDING INNOVATION,
DESIGN, AND TESTING TECHNOLOGY

conductive elastomers
knitted wire mesh products
conductive coatings, sealants, adhesives
shielded vents and windows
cable shielding products
laminated groundstraps & foil tapes
FCC/VDI and TEMPEST testing

**TECHNICAL
BULLETIN**

76

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 mean no ringing (unlike ferrite beads)
- No grounding or shielding required
- 10-15 dB insertion loss from 50-200 MHz
- Will not affect signal transmission
- Cost effective
- Available on reels for automatic insertion

SPECIFICATIONS

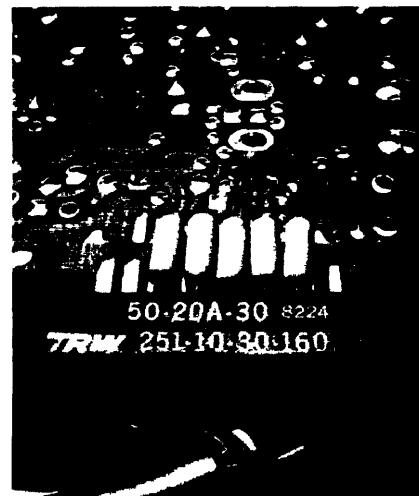
Insertion Loss (in 50-ohm circuit)

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.

ORDERING INFORMATION

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

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