

**Miniature Ribbon
Commercial
All-Plastic**

**.085" (2.16mm) Density
Dip Solder Filtered,
Filter Adapter, and
Connector Saver**

CINCH

A-65-05

Features

- Filter pin contacts (except connector saver)
- Available with dip solder tails or feed through adapter
- Available in plug and socket styles on dip solder filtered type
- Filter adapter designed for input/output applications
- Socket portion equipped with bail latches on filter adapter
- Contact positions: 50
- Mates with industry compatible connectors
- UL Recognized-file E19071
- CSA-LR31996-7

Performance Data

Materials

Insulation Material: UL 94V-0 rated glass-filled polyester, gray

Contact Material: Phosphor Bronze

Contact Plating: 30 μ inch selective gold over 50 μ inch nickel

Electrical Characteristics

Voltage Rating: 300 VDC over entire operating temperature range

Withstanding Voltage: 1000 VAC for 90 seconds

Current Rating:
2.5 Amps DC

2.5 Amps rms maximum for frequencies less than 200 Hz

0.2 Amps rms maximum for all other frequencies less than 18 GHz

Contact Resistance: Per EIA Standard RS364, TP6

Low Level Contact Resistance: Per EIA, Standard RS364, TP23

Insulation Resistance: Per EIA Standard RS364, TP21

Initial: 5000 Megohms minimum

After Moisture: 1000 Megohms minimum

Filter Circuit: Single-pole, low pass capacitive

Capacitance: See chart for value

Dissipation Factor: 2.5% maximum @ 1KHz and 1.2 Volts maximum

Filter Capacity

Minimum Insertion Loss (470pf):

Frequency (MHz)	Insertion Loss (dB)
30	8
40	10
50	12
75	16
100	18
200	24
500	25
1000	25

Measured in accordance with MIL-STD-220 with a 50-ohm source and load impedance.

Mechanical Characteristics

Mating/Unmating Force:

No. of Contacts	Maximum Mating Force With Latches		Minimum Unmating Force Without Latches	
	Lbs	Kg	Lbs	Kg
50	32	14.53	7	3.18

Environmental Characteristics

Shock: Per EIA Standard RS364, TP27, Condition A (50g peak)

Vibration: Per EIA Standard RS364, TP28, Condition A

Moisture Resistance: Per EIA Standard RS364, TP31, Test Condition B with following details and exceptions:
a) Step 7b—not required; b) no drip loops in the wires

Impact Test: Per EIA Standard RS364, TP42

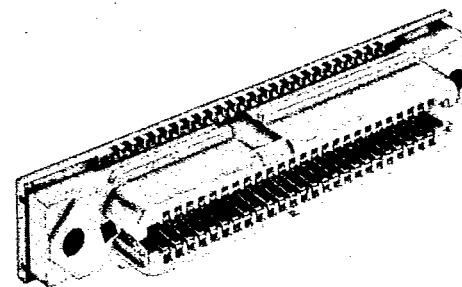
Operating Temperature: -40°C to +105°C

Thermal Shock: Per EIA Standard RS364, TP32

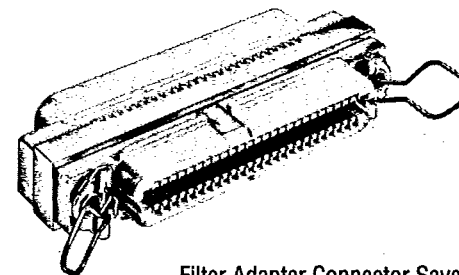
Accessories

The only accessories needed for all-plastic, dip solder filtered miniature ribbon connectors and filter adapters are dust covers. See page 35 for dust cover ordering information.

Other capacitor values available. Consult factory for details.



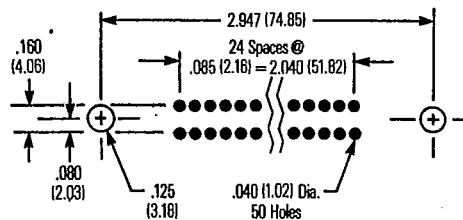
Socket - Dip Solder



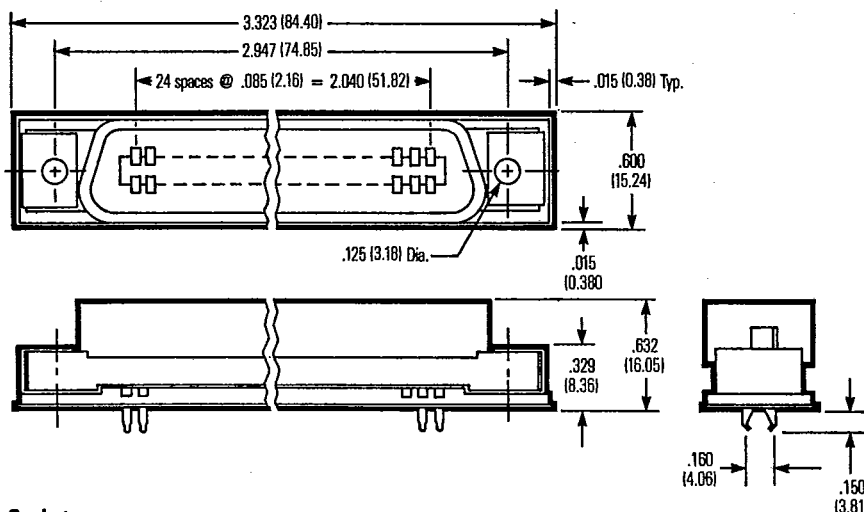
Filter Adapter Connector Saver

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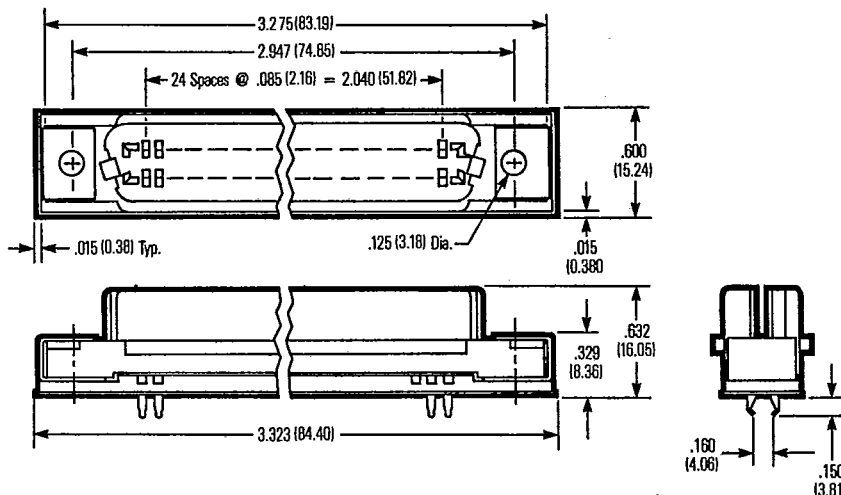
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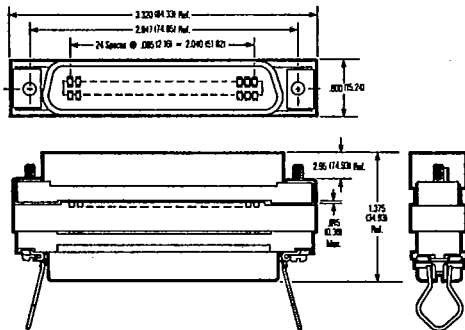
Plug



Socket



Filter Adapter and Connector Saver



**Ordering Information
50 Position**

Capacitance Value pF	Panel Mount Adapter
0 pF	97-FRA50-000 Connector Saver
100 pF	97-FRA50-100
220 pF	97-FRA50-220
470 pF	97-FRA50-470
820 pF	97-FRA50-820
1000 pF	97-FRA50-1000
1200 pF	97-FRA50-1200

**Ordering Information-Dip Solder Filtered
50 Position**

Capacitance Value pF	PC Plug	PC Socket
	.125" Mounting Hole .094" PCB	.125" Mounting Hole .094" PCB
100 pF	97-FR50P-100	97-FR50S-100
220 pF	97-FR50P-220	97-FR50S-220
470 pF	97-FR50P-470	97-FR50S-470
820 pF	97-FR50P-820	97-FR50S-820
1000 pF	97-FR50P-1000	97-FR50S-1000
1200 pF	97-FR50P-1200	97-FR50S-1200