

Models 8040/8041
TERMALINE Coaxial Load Resistors
Instruction Sheet

General

The Bird Models 8040 and 8041 TERMALINE Coaxial Load Resistors are liquid-free, air-cooled RF line terminations capable of dissipating 5 watts continuous power in 75-ohm coaxial circuits. They furnish an accurate termination of low power systems during design, maintenance, testing, and adjustment operations. These 75-ohm loads operate with equal efficiency in any position (i.e. attitude insensitive).

The Bird 8040/41 Resistors are designed for optimum compactness and utility and are made in two models incorporating the respective connector types as part of load resistor body. They are:-
Model 8040 - Female N connector, Model 8041 - Male N, (both 75-ohm).

The resistive element of the Models 8040/41 TERMALINE, individually selected for its accuracy, is enclosed in a heat sink housing, specially contoured inside to provide low reflection characteristics up to 4 GHz. The load resistor is of a permanent type unit construction and not subject to disassembly. To check condition, the dc resistance value of the load can be measured with an accurate resistance bridge. This amount should not vary from nominal more than ± 2 ohms. Defective units are not repairable.

The only maintenance required is cleaning, primarily of the connector portion when necessary. Use a dry solvent, on cotton swab stick, such as trichlorethylene.# Avoid breathing cleaner vapors. Use care in handling the Models 8040/41 - do not drop.

Characteristics Summary

Power Rating	5 watts continuous
Frequency Range.	DC to 4 GHz
VSWR	1.10 max. DC to 1 GHz 1.15 max. 1 to 2 GHz 1.20 max. 2 to 4 GHz
Input Connector.	As above
Impedance.	75-ohm nominal
Ambient Temperature Range. . .	-40°C to -45°C
Dimensions	1" hex x 3-5/16 lg* (25 x 84mm)
Weight	6 oz. (approx.) (170 g)
Operating Position	Any
Finish (Body).	Lustreless Black Enamel

*Model 8041 - 3-5/8 long (92mm)
#or Inhibisol (a tradename)