

Primary application



The 450RC24 is used in applications that require the bi-directional conversion of 75Ω coax to 120Ω 50-pin Telco lines. The high density Patton Balun rack is particularly useful in CO (Central Office) applications. Network & Data Com equipment manufacturers are selling equipment for use in the CO's with only 120Ω Telco interfaces. This creates a mismatch with coax legacy equipment in many CO's. The 450RC24 will allow the Network & Data Com companies equipment to deliver E1 signals from the 120Ω 50-pin Telco connectors to the 75Ω coax CO equipment.

In a typical Customer Premise application, a carrier will likely terminate the G.703 line at the CP on 120Ω twisted pair or a 50-pin Telco connector. If the CP's network equipment is 75Ω coax the 450RC24 would be installed to solve this mismatch.

Ordering information

Model	Description
450RC24	High Density E1/G.703 Balun Rack; 24 Pairs of Female BNC Connector Type (75Ω), Two Female 50-pin Telco Connectors (120Ω).

Units are shipped complete with:

- 450RC24
- User manual
- 6" BNC Removal Tool

Replacement parts

NONE

Shipping/Export Information

ECCN export number: 85175010 00

Country of origin: United States of America, NAFTA

Total weight boxed: 2.36kg (5.20lbs)

Individual unit: 2.02 kg. (4.46lbs)

MTBF/Repair Information

MTBF: 284,000.000 Hrs. Calculation based on MIL-HDBK-217F, Notice 2 - "Parts Count Reliability Prediction"

Mean time to repair: 7– 10 days

Warranty: 1-year parts and labor.

Physical Specifications

Dimensions: 19" Wide X 3.5" Deep X 1.9" High (48.3 X 8.9 X 4.8 cm)

Color: Case: black. Front panel: black with white lettering. Rear panel: black with white silkscreen.

Case material: Cover: Aluminum

Base: Steel

Electrical Characteristics

Results are tested at a frequency range of 1MHz to 3MHz

Insertion Loss: Less than .3dB

Cross Talk: Between the adjacent TX and RX channels 54.4dB

Return Loss: Better than 31dB

Environmental

Operating Temp: 32 to 122°F (0 to 50°C)

Storage Temp: -40 to 185°F (-40 to +85°C)

Relative Humidity: 5 to 95% RH, non-condensing

Altitude: 0–15000 feet (3,048 meters)

Ventilation requirements: None. Units do not require cooling fans.

Approvals

Safety	Emissions	Telecommunications
CE Marked per EMC directive 89/336/EEC and low voltage directive 72/23/EEC. ESD EN61000-4-2	NONE REQUIRED	NONE REQUIRED
	EN55022 Class A	Fully meets ITU-T (G.703) Standards

Power Supplies

Units do not require power.