

EM-7844 | Tunable Notch Filter Network



Description

The EM-7844 Tunable Notch Filter Network is a tunable narrowband rejection filter operating from 375 MHz to 1 GHz. It is used whenever high rejection (attenuation) is required at one select frequency and low attenuation for the other frequencies. The high power rating of the EM-7844 permits its use for measurements on high power transmitters, providing the voltage input level is carefully regulated.

The EM-7844 covers from 375 MHz to 1 GHz in two (2) frequency bands. Band 1 covers from 375 MHz to 700 MHz, while Band 2 covers 700 MHz to 1 GHz. Each band uses a series of tuning networks comprising a variable capacitor plus assorted fixed resistors and inductors.

The EM-7844 is designed for bench top operation.

Specifications

Electrical

Frequency Range: 375 MHz to 1 GHz

Maximum Voltage:

71 Vrms at the tuned frequency
20 Vrms at all other frequencies

Number of Tuning Bands: 2

Band 1: 375 - 700 MHz

Band 2: 700 MHz - 1 GHz

Minimum Rejection: 50 dB

Connectors: Type N, female

Mechanical

Height: 14.7 cm (5.8")

Length: 26.2 cm (10.3")

Width: 25.7 cm (10.1")

Weight: 4.5 kg (10 lbs.)

Ref: 100420