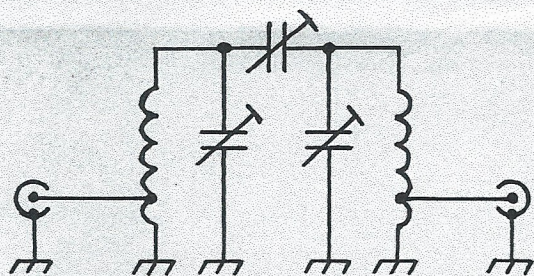
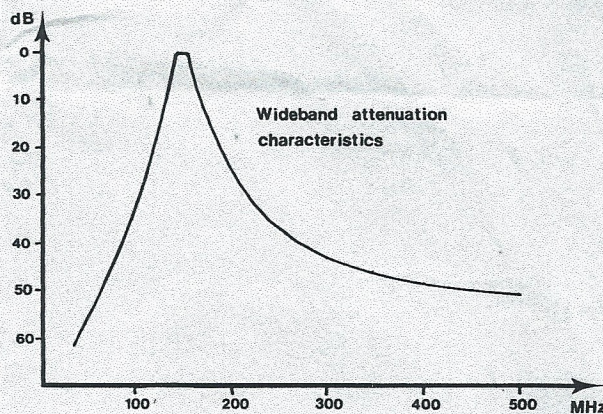


# \* The LBPF 144u 2m low-loss bandpass filter



Circuit Schematic



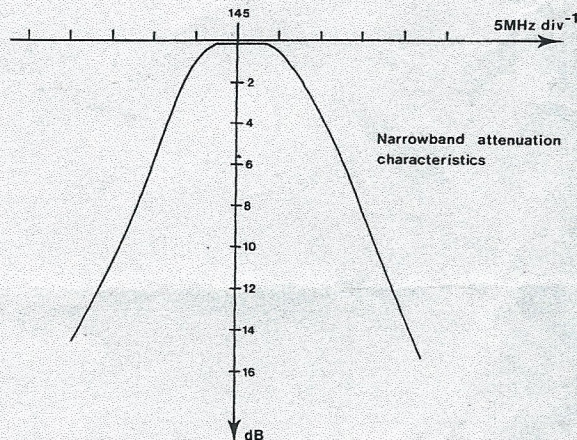
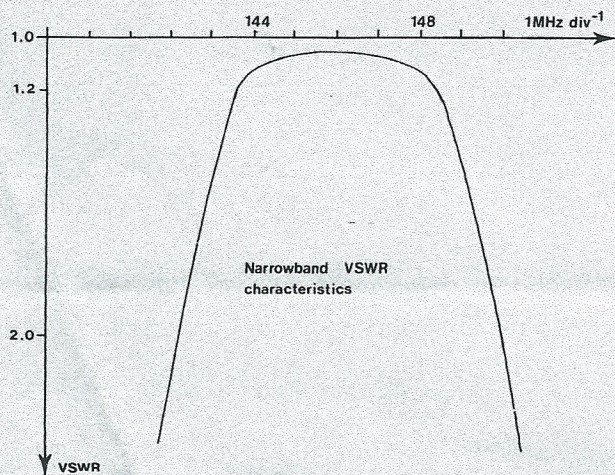
The LBPF 144u is a two-pole no-zero lumped component bandpass filter for the 144MHz band. It has been designed to combine best possible roll-off characteristics with low insertion loss and high power handling. The insertion loss of the filter is sufficiently low so that it may be used in front of any existing 144MHz receiver or preamplifier without any noticeable reduction in sensitivity.

The LBPF 144u will find many applications. Used in a transmit situation, the filter will help suppress out-of-band spurious products (typically better than 45dB extra rejection of a 144MHz third harmonic!). Used on receive, substantially improved suppression of the levels of strong out-of-band signals will help in the prevention of in-band intermodulation products.

The filter is housed in a durable epoxy-coated die-cast metal box, and is supplied with type BNC connectors.

1dB bandwidth	:	12MHz
3dB bandwidth	:	18MHz
Insertion loss in passband	:	< 0.3dB 144-148 MHz
Insertion vswr in passband	:	< 1.2:1 in 50 Ω
Power handling in passband	:	120W vswr < 1.2:1 70W vswr = 2.0:1
Size	:	100 x 50 x 25mm approx. (excluding connectors)

## All Data Typical



from muTek limited.