The 7504 FM Communication trainer is part of an analogue communication range which provides all the necessary inputs, test points and connections for experimentation. The 7504 trainer teaches students the principles of FM communications through observation of waveforms via various on board test points.

**Experiments**
- Frequency deviation and modulation index
- Marker insertion to evaluate frequency deviation
- Spectrum of the FM signal
- Study phase locked loop detector

**Specification**

**Function Generator:**
- Waveform: Sine
- Amplitude: Adjustable from 0-4Vpp
- Frequency: Adjustable from 0.1 to 10KHz

**VCO1**
- Waveform: Sine
- Frequency: 400kHz to 1500KHz
- Amplitude: Adjustable from 0-2Vpp

**Inputs**
- Modulating Signal

**VCO2**
- Waveform: Sine
- Frequency: 400KHz to 1500KHz
- Amplitude: Adjustable from 0-2Vpp

**Inputs**
- Modulating Signal, marker

**Sweep Depth**
- Frequency 7KHz (Adjustable)

**RF Detector**
- Input level adjustable

**Balance modulator**
- Adjustable output amplitude & adjustable carrier null

**Ceramic Filter**
- Central frequency 455KHz

**Bandwidth**
- 3 ± 1KHz

**FM Detectors**
- Phased Locked Loop Detector
- Quadrature Detector
- Foster-Seely and Ratio Detector

**Key Features:**
- Functional Blocks indicated via on board mimics
- Built in Function Generator
- Test points
- FM Detectors (PPL, Quadrature, Foster-seely and Ratio)
Test Points          8
Power               230V ± 10%, 50/60Hz
                    W340, H100, D240
Approximate weight  2.5Kg

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Notes.
1. Specification is subject to change without notice.
2. All dimensions are in mm unless otherwise stated

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