

HIGHER TECHNICAL INSTITUTE
ELECTRICAL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

RE/FUNCTION GENERATOR

by
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“ RF/FUNCTION GENERATOR “

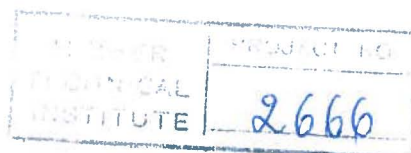
Project Report submitted by

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To my parents

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Introduction

This project presents an RF/Function Generator, which generates frequencies in the range of 20Hz to 20MHz in three ranges. These ranges represent the Function Generator. It produces sinusoidal, triangular and also square waveforms, with adjustable duty factor. Also there is a UHF oscillator.

Sweep operation is also available and it covers the three ranges individually.

In addition to that Frequency and Amplitude Modulation take an action, both internally or externally.

And also an attenuator gives the ability for output levels 0dBm down to -110dBm.