FACULTY OF ENGINEERING AND INFORMATION TECHNOLOGY
SCHOOL OF ENGINEERING

FINAL REPORT

FINAL YEAR ENGINEERING PROJECT 2002

Project Title : MICROWAVE HIGH PASS FILTER DESIGN
                (4th Order Butterworth Response at a Cut-off
                Frequency of 1.2 GHz using Microstrip Line)

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ABSTRACT

The following is a final year project progress report of the project entitled ‘Microwave High Pass Filter Design’, which is offered by project supervisor, Mr. Low Boon Tatt to fulfill the course of Final Year Project done in Sedaya College (3 + 0 program with the Northumbria University). This report provides the algorithms design that has been formulated for the construction of a 4th order high pass filter using microstrip and a method of stub conversion for maximally-flat (Butterworth) response with a cut-off frequency of 1.2GHz. While, a general knowledge and theory regarding microwave and microwave filter is in detailed, and a complete procedure of design methodology is also provided in this report. Besides, the simulated filter results in simulation software “Microwave Office 2002” is shown too.