

Lissajous Figures

Introduction

Lissajous figures displayed on an oscilloscope can be used to give a quick estimate of the relative phase of two signals at the same frequency. The plots presented here represent

$$X = \cos(\omega t) \quad Y = \cos(\omega t + \phi)$$

where the phase angle ϕ is indicated in degrees by the number the top right of each plot. To use this catalogue, adjust the oscilloscope so that the X and Y signals have exactly the same amplitude (8 divisions peak-to-peak) the pattern is accurately centred on the screen.







