

MC1377

I/Q System versus (R-Y)/(B-Y) System

The NTSC standard calls for unequal bandwidths for I and Q (Figure 21). The MC1377 has no means of processing the unequal bandwidths because the I and Q axes are not used (Figure 22) and because the outputs of the (R-Y) and the (B-Y) modulators are added before being output at Pin 13. Therefore, any bandwidth reduction intended for the chroma information must be performed on the composite chroma information. This is generally not a problem, however, since most monitors compromise the standard quite a bit.

Figure 20. NTSC Standard Spectral Content

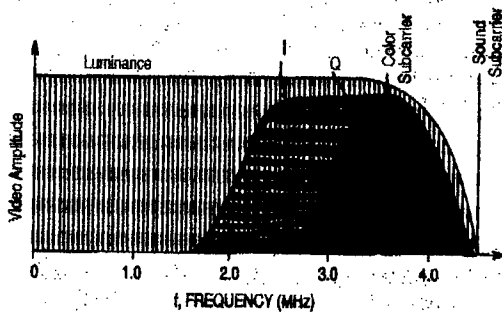


Figure 21. Color Vector Relationship (Showing Standard Colors)

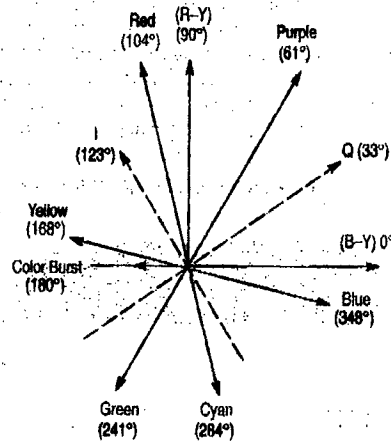


Figure 22. Frequency Response of Typical Monitor/TV

