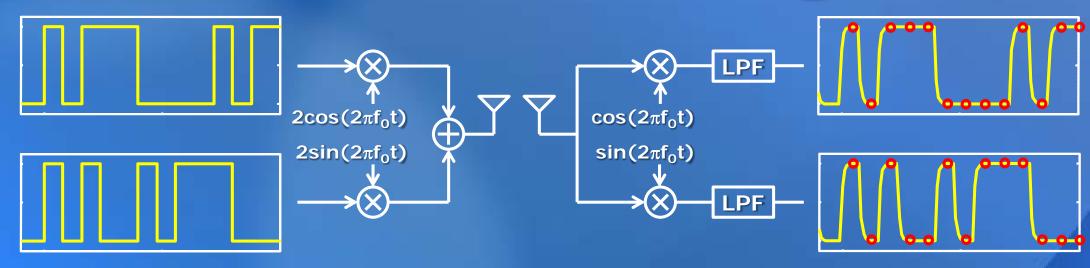
Constellation Diagrams

Constellation Diagrams



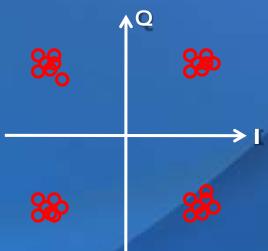
- Plot I/Q sampled values on I-Q axis
- As more samples are plotted, constellation diagram eventually displays all possible symbol values
- Constellation diagrams provide a sense of how easy it is to distinguish between different symbols



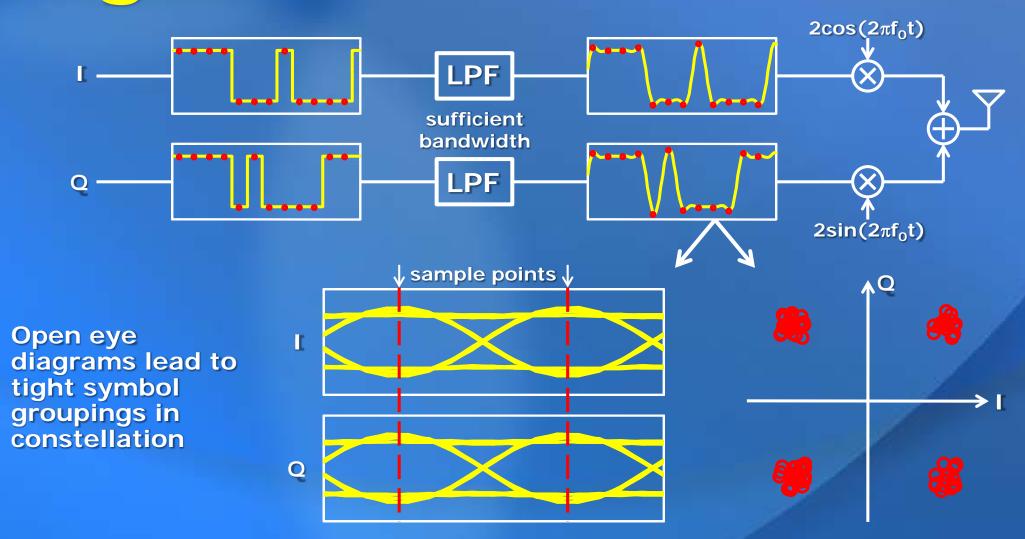
Impact of Noise



- Noise perturbs sampled I/Q values
- Constellation points no longer consist of single dots for each symbol
- If noise is big enough, this can cause bit errors!



High Tx Filter Bandwidth



Low Tx Filter Bandwidth

