

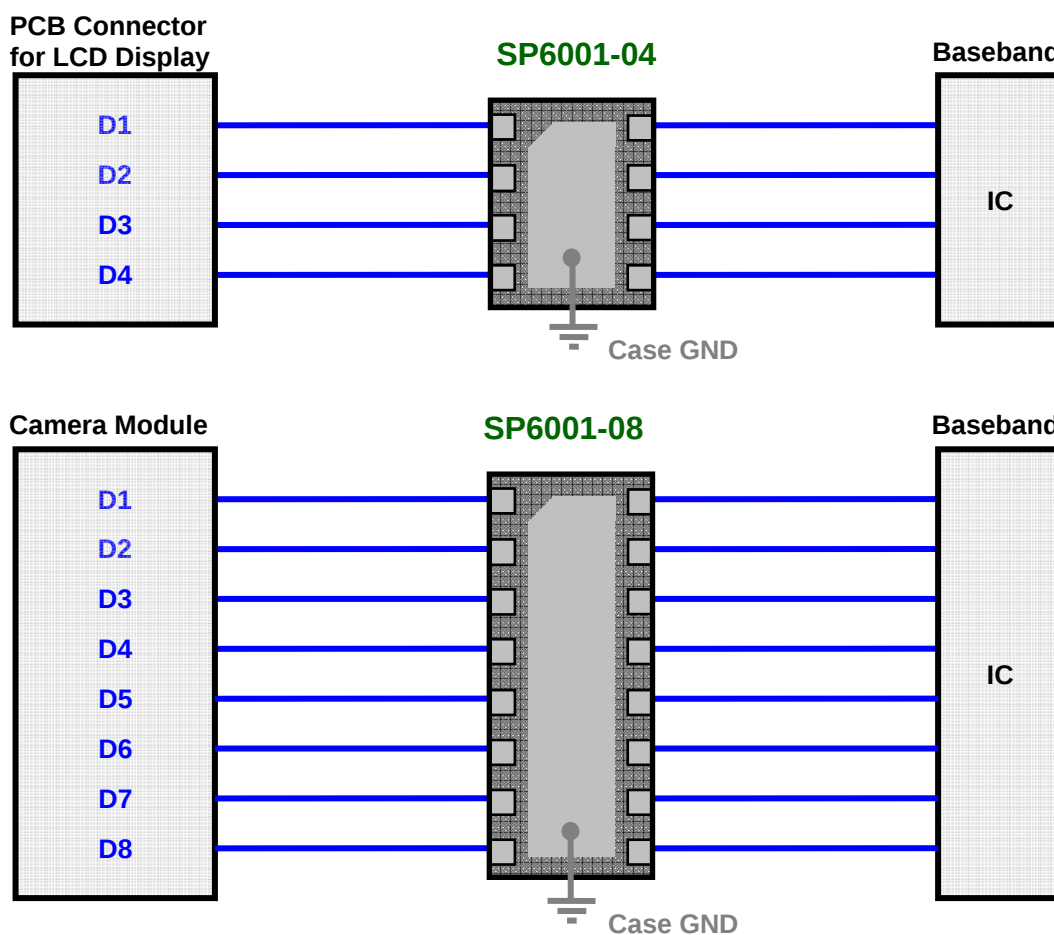
Application Guide

LCD and Camera Interfaces (Mobile)

Considerations:

- LCD and camera interfaces in mobile devices are vulnerable to EMI from the cellular band
→ Frequencies between 800-3000MHz should be attenuated to prevent distortion on the display
- The pixel clocks vary depending upon the display size but the frequency will typically fall between 5-65MHz
→ This corresponds to data rates between 10-60Mbps and with these speeds line capacitances need to be considered
→ In the majority of applications line capacitances of 20-40pF will not cause signal integrity issues
- The protection schemes below for data lines **Dx** are only examples and will vary with the particular application

Application Schematic:



*Packages are shown as transparent

Recommended SPA Devices:

Ordering Number	ESD Level (Contact)	Cut-off Frequency	Line Capacitance	# of Channels	V _{RWM}	Packaging
SP6001-0xUTG-1	±30kV	115MHz	24pF	4/6/8	6V	μDFN-8/12/16
SP6002-0xUTG-1	±30kV	100MHz	30pF	4/6	6V	μDFN-8/12