

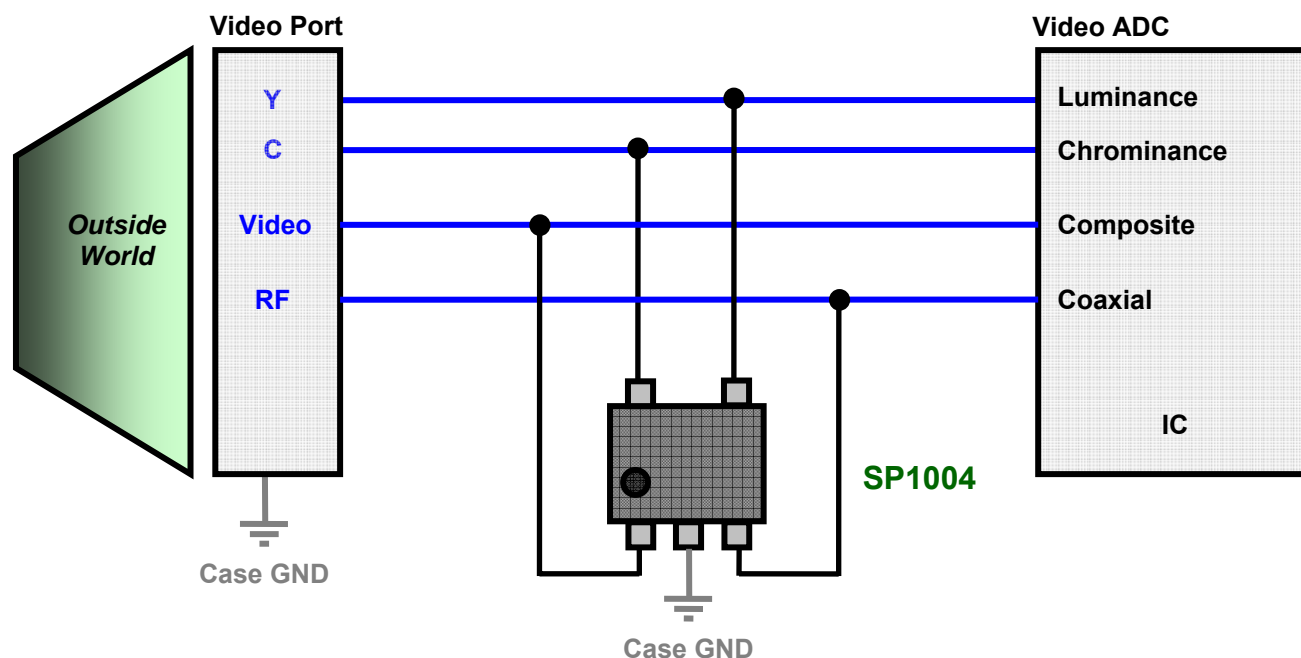
## Application Guide

### Analog Video

#### Considerations:

- Analog video ports typically have signals that swing above and below GND (i.e.  $\pm 2V$ )  
→ A bidirectional protection device should be used as these devices will not clip the analog signal
- S-Video, Composite, and RF/Coaxial are a few of the common low-speed analog video signals in use today  
→ Typical bus speeds will not exceed 5MHz so capacitance is not much of a concern  
→ Protection of the three are shown below (Y, C, Video, and RF)

#### Application Schematic:



#### Recommended SPA Devices:

| Ordering Number              | ESD Level (Contact) | Lightning ( $t_p=8/20\mu s$ ) | I/O Capacitance | # of Channels | $V_{RWM}$ | Packaging |
|------------------------------|---------------------|-------------------------------|-----------------|---------------|-----------|-----------|
| <a href="#">SP1004-04VTG</a> | $\pm 8kV$           | 2A                            | 5pF             | 4             | 6V        | SOT953    |
| <a href="#">SP1002-01JTG</a> | $\pm 8kV$           | 2A                            | 5pF             | 1             | 6V        | SC70-3    |
| <a href="#">SP1002-02JTG</a> | $\pm 8kV$           | 2A                            | 5pF             | 2             | 6V        | SC70-5    |