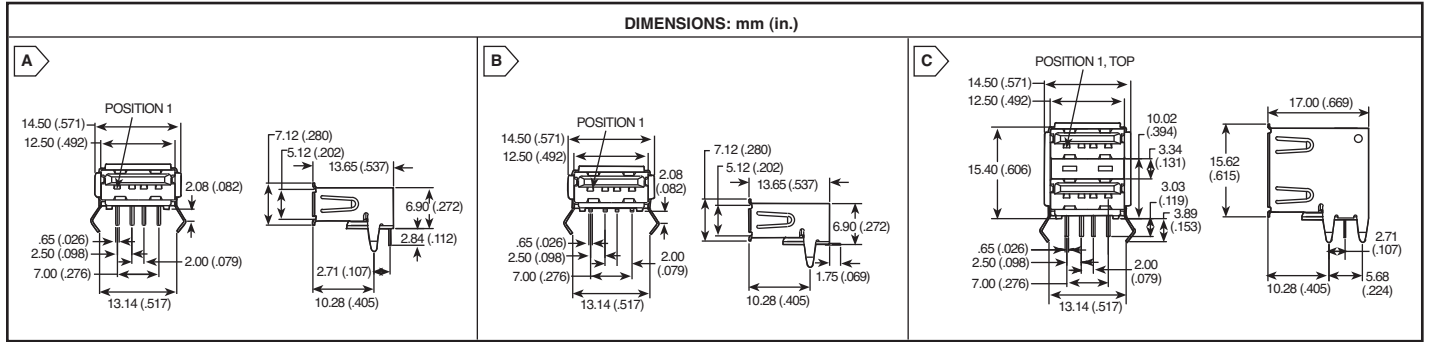


ESD/EMI Filtered USB Connectors & Patch Antenna Elements



RoHS Compliant This product is RoHS compliant.

SERIES USB-E ESD PROTECTED USB CONNECTORS



Features:

- TVS diodes for protection
- Clamping Voltage 9.8 volts
- Junction capacitance I/O to GND<10pF max.
- Product meets EN6100-4-2 EDS & EN61000-4-4 EFT specs
- Drop-in replacement for unfiltered USB connectors
- RoHS Compliant per Spectrum ASP Documentation

Specifications:

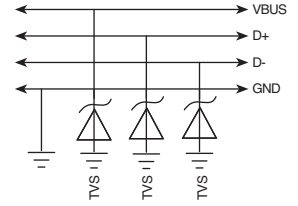
- Working Voltage: 5 VDC
- Current Rating: 1 Amp max.
- Operating Temp: -55° to +125°C
- Temperature Range: -40°C to +71°C
- Contact Resistance: 30 mΩ max.



RoHS Compliant

For quantities of 100 and up, call for quote.

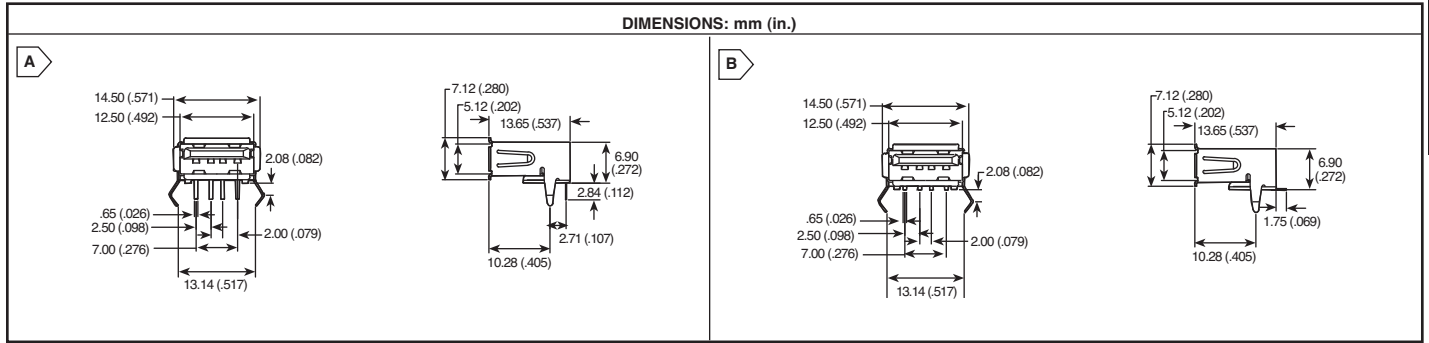
Protection Schematic



MOUSER STOCK NO.	Spectrum ASP Part No.	Fig.	Description	Price Each			
				1	10	25	50
657-56FU04-E01	56FU04-E01	A	Right Angle Through Hole w/TVS Diodes	9.32	8.91	8.51	8.10
657-56FU04-E01-SM	56FU04-E01-SM	B	Right Angle Surface Mount w/TVS Diodes	7.45	6.83	6.41	6.12
657-56FU24-E01	56FU24-E01*	C	Stacked Right Angle Through Hole w/TVS Diodes	8.56	8.18	7.81	7.44

* Part # 56FU24-E01 - Junction capacitance, I/O to GND 3pF max.

SERIES USB-F EMI FILTERED USB CONNECTORS



Features:

- USB 1.1 capacitive filtering 100pF
- Drop-in replacement for unfiltered USB connectors
- **Capacitive Filtered:** Capacitance - 100pF, Dielectric Withstand Voltage - 125VDC
- RoHS Compliant per Spectrum ASP documentation

Specifications:

- Working Voltage: 5 VDC
- Current Rating: 1 Amp max.
- Operating Temp: -55°C to +125°C
- Temperature Range: -40°C to +71°C
- Contact Resistance: 30 mΩ max.



RoHS Compliant

For quantities of 100 and up, call for quote.

MOUSER STOCK NO.	Spectrum ASP Part No.	Fig.	Description	Capacitance	Price Each			
					1	10	25	50
657-56FU04-015	56FU04-015	A	Right Angle Through Hole	10pF	4.00	3.83	3.65	3.48
657-56FU04-015-SM	56FU04-015-SM	B	Right Angle Surface Mount	10pF	4.07	3.89	3.72	3.54
657-56FU04-001	56FU04-001	A	Right Angle Through Hole	22pF	4.00	3.83	3.65	3.48
657-56FU04-001-SM	56FU04-001-SM	B	Right Angle Surface Mount	22pF	3.22	2.95	2.77	2.64
657-56FU04-002	56FU04-002	A	Right Angle Through Hole	33pF	4.00	3.83	3.65	3.48
657-56FU04-002-SM	56FU04-002-SM	B	Right Angle Surface Mount	33pF	3.22	2.95	2.77	2.64
657-56FU04-003	56FU04-003	A	Right Angle Through Hole	47pF	4.00	3.83	3.65	3.48
657-56FU04-003-SM	56FU04-003-SM	B	Right Angle Surface Mount	47pF	4.07	3.89	3.72	3.54
657-56FU04-004	56FU04-004	A	Right Angle Through Hole	100pF	4.00	3.83	3.65	3.48
657-56FU04-004-SM	56FU04-004-SM	B	Right Angle Surface Mount	100pF	3.22	2.95	2.77	2.64

PATCH ANTENNA ELEMENTS

Features:

- Temperature stable (-40°C to +105°C)
- Low return loss
- Uniform dielectric constant
- Offset single-point feeding method

Specifications:

- Silver plated electrode and probe
- 50 Ohm impedance
- Surface Mount
- RoHS Compliant per Spectrum ASP documentation



RoHS Compliant

For quantities of 100 and up, call for quote.

MOUSER STOCK NO.	Spectrum ASP Part No.	Center Frequency (MHz) Application	2:1 VSWR Bandwidth (MHz)	Price Each			
				1	10	25	50
657-PA251575008SALF	PA251575008SALF	1575, GPS	20	3.33	3.00	2.83	2.63
657-PA251579008SALF	PA251579008SALF	1579, GPS	20	11.75	10.50	9.75	9.00
657-PA251615025SALF	PA251615025SALF	1615, Globalstar	25	11.75	10.50	9.75	9.00
657-PA251621025SALF	PA251621025SALF	1621, Iridium	25	14.60	13.50	12.50	11.50

