

Patch Antennas and ESD/EMI Filtered USB Connectors

RoHS Compliant This product is RoHS compliant.



PATCH ANTENNAS

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

PATCH ANTENNA ASSEMBLIES

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Spectrum ASP Part No.	Center Frequency (MHz) Application	2:1 VSWR Bandwidth (MHz)	Price Each			
				1	5	10	25
657-AR251575008CCLF	AR251575008CCLF	1575 10" SMA GPS	8	97.00	91.51	86.61	82.20
657-AR251615025CCLF	AR251615025CCLF	1615 10" SMA Globalstar	25	97.72	92.19	87.25	82.81
657-AR251621025CCLF	AR251621025CCLF	1621 10" SMA Iridium	25	99.96	94.30	89.25	84.71
* 657-AR1615CC1575XXF	AR1615CC1575XXF	1615/1575 10" SMA GPS/Globalstar	135	132.58	125.08	118.38	112.36
657-AR780915030CCLF	AR780915030CCLF	915 10" SMA RFID	30	189.10	178.40	168.84	160.25
657-AR780868030CCLF	AR780868030CCLF	868 10" SMA RFID	30	189.10	178.40	168.84	160.25



PATCH ANTENNA ELEMENTS

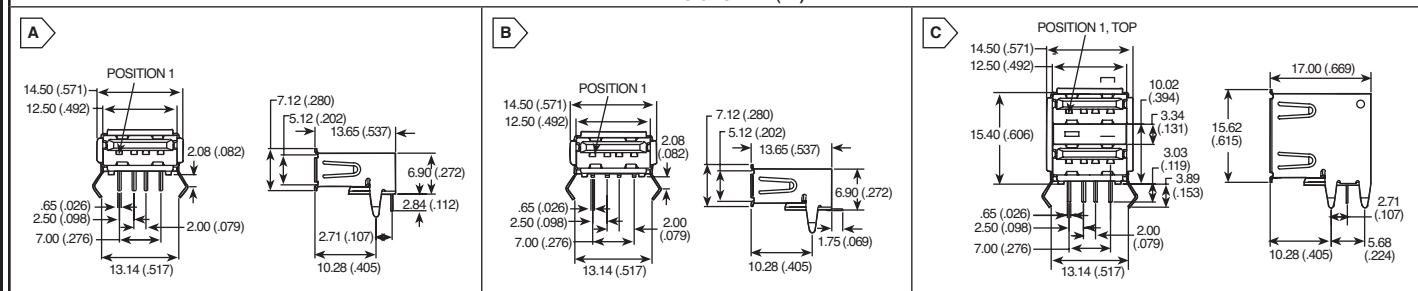
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Spectrum ASP Part No.	Center Frequency (MHz) Application	2:1 VSWR Bandwidth (MHz)	Price Each			
				1	5	10	25
657-PA251575008SALF	PA251575008SALF	1575,GPS	20	7.92	7.76	7.43	7.18
657-PA251579008SALF	PA251579008SALF	1579,GPS	20	6.99	6.60	6.38	6.20
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
* 657-PA45-1615-1575SA	PA45-1615-1575SA	1615,Global Star/1575, GPS	125/20	18.56	17.80	16.72	15.97
* 657-PA45-1621-1575SA	PA45-1621-1575SA	1621,Iridium/1575, GPS	25/20	18.56	17.80	16.72	15.97

* Dual Frequency

SERIES USB-E ESD PROTECTED USB CONNECTORS

DIMENSIONS: mm (in.)



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:

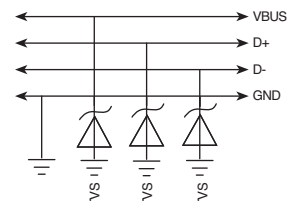
- Working Voltage: 5VDC
- Current Rating: 1 Amp max.
- Operating Temp: -55°C to +125°C
- Temperature Range: -40°C to +71°C
- Contact Resistance: 30mΩ max.

For quantities greater than listed, call for quote.

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 with TVS Diodes	9.32	8.91	8.51	8.10
657-56FU04-E01-SM	56FU04-E01-SM	B	Right Angle Surface Mount with TVS Diodes	12.16	11.05	10.15	9.35
657-56FU24-E01	56FU24-E01	C	Stacked Right Angle Through Hole with TVS Diodes	8.56	8.18	7.81	7.44

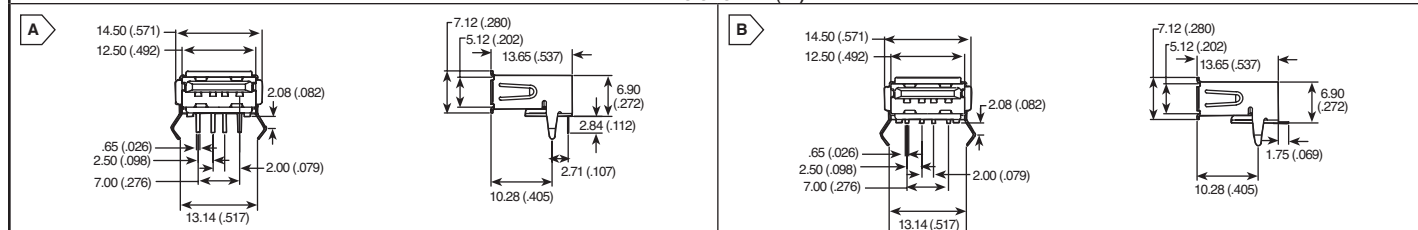
* Part # 56FU24-E01 - Junction capacitance, I/O to GND 3pF max.

Protection Schematic



SERIES USB-F EMI FILTERED USB CONNECTORS

DIMENSIONS: mm (in.)



Features:

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

Specifications:

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

For quantities greater than listed, 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	Through Hole	10pF	3.22	2.95	2.77	2.64
657-56FU04-015-SM	56FU04-015-SM	B	Surface Mount	10pF	3.22	2.95	2.77	2.64
657-56FU04-001	56FU04-001	A	Through Hole	22pF	3.22	2.95	2.77	2.64
657-56FU04-001-SM	56FU04-001-SM	B	Surface Mount	22pF	3.22	2.95	2.77	2.64
657-56FU04-002	56FU04-002	A	Through Hole	33pF	3.22	2.95	2.77	2.64
657-56FU04-002-SM	56FU04-002-SM	B	Surface Mount	33pF	3.22	2.95	2.77	2.64
657-56FU04-003	56FU04-003	A	Through Hole	47pF	3.22	2.95	2.77	2.64
657-56FU04-003-SM	56FU04-003-SM	B	Surface Mount	47pF	3.22	2.95	2.77	2.64
657-56FU04-004	56FU04-004	A	Through Hole	100pF	3.22	2.95	2.77	2.64
657-56FU04-004-SM	56FU04-004-SM	B	Surface Mount	100pF	3.22	2.96	2.76	2.63