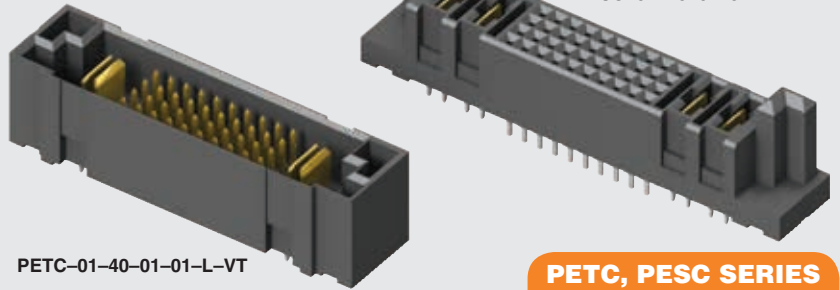




**POWER STRIP 40**

PESC-02-40-02-01-L-VT



PETC-01-40-01-01-L-VT

PETC, PESC SERIES

(6.35 mm) .250" (PWR) (2.54 mm) .100" (SIG)

# 40 A SIGNAL/POWER COMBO SYSTEM

## SPECIFICATIONS

For complete specifications see [www.samtec.com?PETC](http://www.samtec.com?PETC) or [www.samtec.com?PESC](http://www.samtec.com?PESC)

**Insulator Material:**  
Black LCP

**Terminal Material:**  
Copper Alloy

**Plating:**

Sn or Au over 50 μm (1.27 μm) Ni  
**Current Rating (Signal Pin):**

5.7 A per pin  
(4 pins powered)

**Insertion Depth (Power Pin):**  
(5.00 mm) .197" to

(8.46 mm) .333"

**Wiping Distance:**

Signal: (1.5 mm) .059" Max

Power: (4.14 mm) .163" Max

**Operating Temp Range:**

-55 °C to +125 °C for Au

-55 °C to +105 °C for Sn

**Voltage Rating:**

Signal: 450 VAC/636 VDC

Power: 650 VAC/919 VDC

**Standard Creepage:**

(3.66 mm) .144" (power)

**Standard Clearance:**

(3.31 mm) .130" (power)

**RoHS Compliant:**

Yes

**Lead-Free Solderable:**

Yes

PETC/PESC	
POWER PINS	CURRENT RATING (PER CONTACT)
1	31.4 A
2	28.0 A
3	24.4 A
4	22.9 A

## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



FILE NO. E111594

## ALSO AVAILABLE (MOQ Required)

- Other signal pins
- Power pins
- Asymmetric power pin placement
- Other platings

### Notes:

The number of power pins on each end must equal.

Some sizes, styles and options are non-standard, non-returnable.

**PETC**

**POWER PINS**

**SIGNAL PINS**

**POWER PINS**

**01**

**PLATING OPTION**

**TAIL**

**OTHER OPTION**

**-01, -02, -04**

**-12**

**-40**

**-01, -02, -04**

**-L**

= 10 μm (0.25 μm)  
Gold on contact area,  
Matte Tin on tail

**-T**

= Matte Tin

**-VT**

= Vertical

**-RA**

= Right-angle

**-SD**

= Screw Down  
(Right-angle only)

**-LC**

= Locking Clip  
(Manual placement required)

Technical drawing of PETC connector showing top and side views with dimensions. Dimensions include: (11.43) .450, (2.54) .100, (0.64) .025 SQ, (6.35) .250 TYP, (14.50) .571, (14.62) .575, (2.54) .100, (0.50) .020, (2.35) .093.

POWER PINS/END	A	
	12 SIGNAL PINS	40 SIGNAL PINS
-01	(39.37) 1.550	(57.15) 2.250
-02	(52.07) 2.050	(69.85) 2.750
-04	(77.47) 3.050	(95.25) 3.750

**CREEPAGE AND CLEARANCE**

Selectively loading contacts achieves customer specific creepage and clearance requirements.  
Contact [asp@samtec.com](mailto:asp@samtec.com)

**PESC**

**POWER PINS**

**SIGNAL PINS**

**POWER PINS**

**01**

**PLATING OPTION**

**TAIL**

**OTHER OPTION**

**-01, -02, -04**

**-12**

**-40**

**-01, -02, -04**

**-L**

= 10 μm (0.25 μm)  
Gold on contact area,  
Matte Tin on tail

**-T**

= Matte Tin

**-VT**

= Vertical

**-RA**

= Right-angle

**-SD**

= Screw Down  
(Right-angle only)

**-LC**

= Locking Clip  
(Manual placement required)

Technical drawing of PESC connector showing top and side views with dimensions. Dimensions include: (11.43) .450, (2.54) .100, (0.64) .025 SQ, (6.35) .250 TYP, (12.00) .472, (12.64) .497, (2.47) .097, (2.54) .100, (0.79) .031 X (0.41) .016, (0.50) .020, (4.40) .173, (25.20) .992, (3.81) .150 DIA, (4.29) .169, (2.54) .100.

POWER PINS/END	A	
	12 SIGNAL PINS	40 SIGNAL PINS
-01	(39.37) 1.550	(57.15) 2.250
-02	(52.07) 2.050	(69.85) 2.750
-04	(77.47) 3.050	(95.25) 3.750

Due to technical progress, all designs, specifications and components are subject to change without notice.

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

All parts within this catalog are built to Samtec's specifications.

Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.