

BVTH-011616: Universal SMT-to-DIP Adapter for SOIC-16, SSOP-16, and TSSOP-16; Compatible with DIP-16 (0.6" Row Spacing)

Main Features

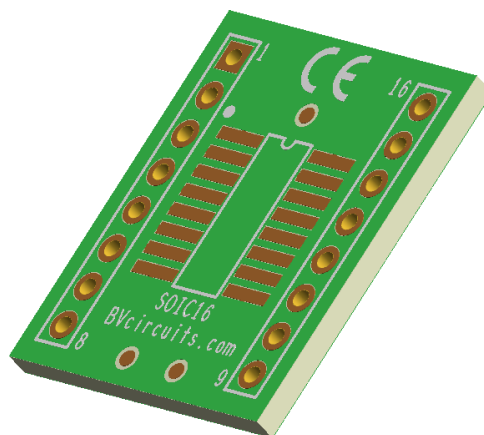
- Converts standard 16-pin SOIC (wide or narrow), SSOP and TSSOP packages to DIP format
- Standard 0.1" (2.54 mm) DIP pin spacing, 0.6" (15.24 mm) row spacing
- Clear pin marking for easy orientation
- RoHS compliant

Applications

- Prototyping with surface-mount components
- Replacing legacy DIP components in projects with modern SMT alternatives
- IC evaluation

Specifications

- FR4 PCB material with Tg > 150
- 0.062" (1.6 mm) thickness, UL 94V-0
- Board dimensions: 20mm × 23mm
- ENIG finish
- Operating temperature range: -40°C to +100°C
- Compatible DIP headers are available for purchase separately
- Also available as an assembled version with pre-mounted DIP headers upon request, or as panelized PCBs



Pin Mapping

This double-sided PCB adapter features:

- Top Side: A footprint compatible with SOIC-16 wide or narrow components
- Bottom Side: A footprint that supports both SSOP-16 and TSSOP-16 components

The standard version provides direct pin mapping on each side of the PCB (Pin 1 to Pin 1, Pin 2 to Pin 2, etc.). Top and bottom pin mappings are independent.

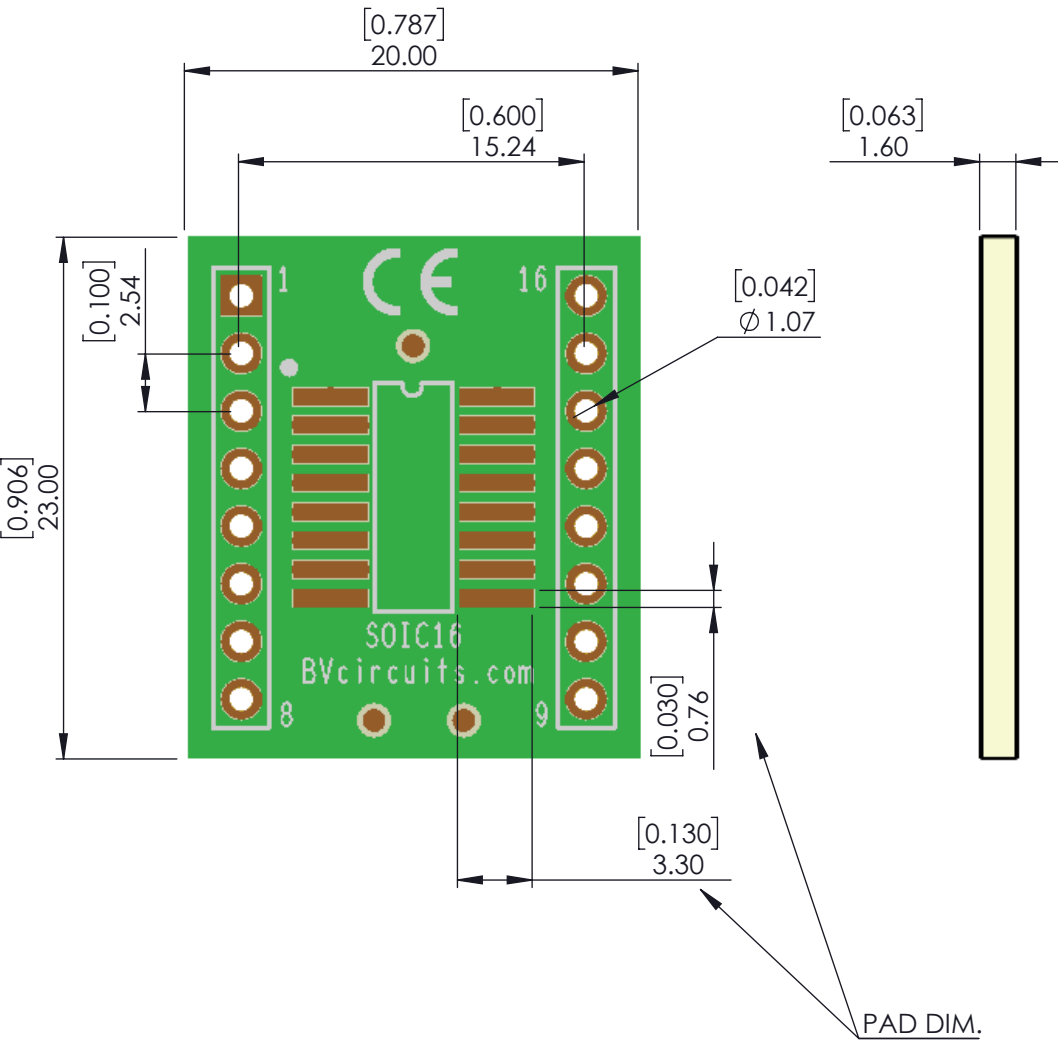
For alternative pin routing requirements, refer to the customization options.

Order Information

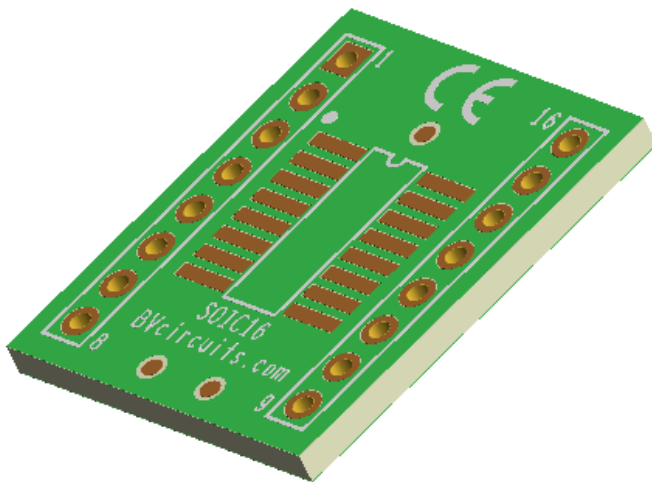
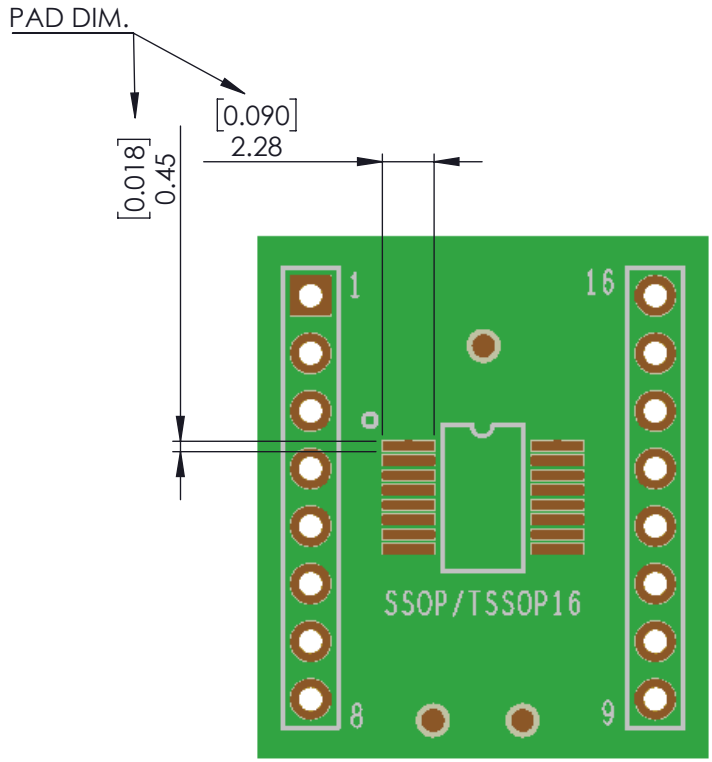
Part Number	Package
BVTH-011616	Universal SMT-to-DIP Adapter for SOIC-16, SSOP-16, and TSSOP-16; Compatible with DIP-16 (0.6" Row Spacing)
BVTH-011616-P	Panelized version: 80 pieces per panel, designed for added convenience in mass production and compatibility with automatic reflow processes

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	First Drawing	14/12/2024	David M.

TOP-SOIC16





BOTTOM-SSOP/TSSOP16



Notes:

1. THE TOLERANCE FOR BOARD THICKNESS IS: THICKNESS $\pm 10\%$
2. THE TOLERANCE FOR HOLES IS: + 0.13 mm - 0.08 mm.
3. ALL DIMENSIONS ARE IN MM. VALUES IN [] ARE IN INCH.

	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM TOLERANCES ON:		BV P/N: BVTH-011616	
	DEC. .X ± 1 mm .XX ± 0.05 mm	ANGLES $\pm 1/2^\circ$	Description: Universal SMT-to-DIP Adapter for SOIC-16, SSOP-16, and TSSOP-16; Compatible with DIP-16 (0.6" Row Spacing))	
	SIZE A3	 THIRD ANGLE PROJECTION		REV A
	SCALE: 3:1			SHEET: 1/1

Customization Options

Custom designs available upon request including:

- Modified pin routing for specialized applications
- Alternative board dimensions and pin spacing or layout
- Different materials and plating
- pre-mounted DIP headers

To request customized version, please contact our sales team at sales@bvcircuits.com. Provide

detailed specification and our engineering team will review your request and provide a quote and lead times.

Related Parts

Part Number	Description
BVTH-004208	8 pin male header, 2.54 mm, gold plated, UL94 V-0

Visit us at bvcircuits.com for more products.

Disclaimer

Specifications are subject to change without notice. The information provided in this document is believed to be accurate and reliable. However, BV Circuits assumes no responsibility for any errors or omissions, nor for incidental or consequential damages resulting from the use of this information.

This adapter is intended for use by qualified personnel experienced in electronics assembly and handling. Improper use or application may result in damage to the adapter, connected devices, or personal injury. BV Circuits is not liable for any damages, direct or indirect, arising from the misuse of this product.

The adapter is provided with a limited warranty against defects in materials and workmanship for a period of 60 days from the date of purchase. This warranty does not cover damage caused by misuse, neglect, accident, or unauthorized modification. BV Circuits' liability is limited to the repair or replacement of the defective adapter.

This adapter is not suitable for applications involving high voltage, high current, or hazardous environments. BV Circuits is not responsible for any damages resulting from using this adapter in unsuitable applications. It is the user's responsibility to ensure the adapter is compatible with their specific application and meets all relevant safety and regulatory requirements.