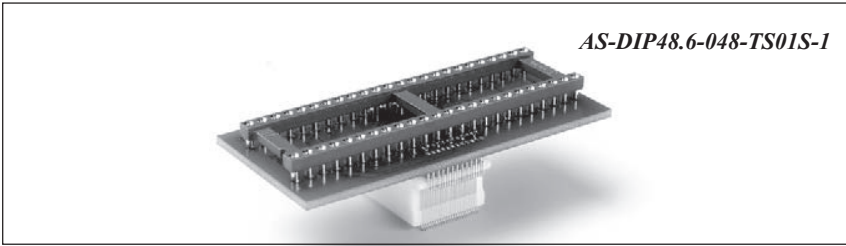


# DIP TO TSOP & MLF - SURFACE MOUNTABLE - EMULATOR ADAPTERS



## DIP TO QFN/MLF, TSOP PACKAGE CONVERTERS

These adapters enable you to adapt 6 to 32-pin DIPs to TSOP-type footprints. These devices have a two-piece construction: a top DIP assembly with interconnects to a TSOP surface-mountable assembly that is soldered to the target PC board and then, the top assembly is plugged onto it.

### FEATURES

- Adapters can be used for prototyping SMT boards with DIP devices
- Provide interconnects to SMT patterns for testing
- Constructed with gold-plated machined pin contacts for high reliability

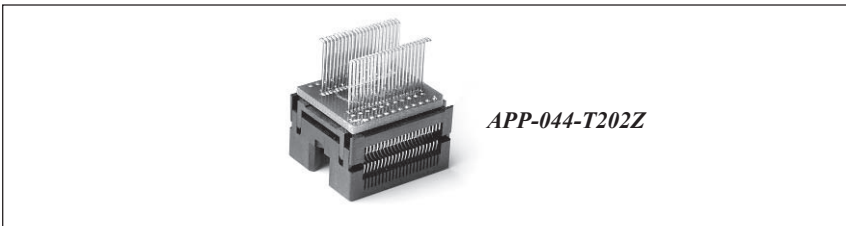
**Ordering Information**

Female Top Socket \_\_\_\_\_ Dip Width (.600")  
 Product Code \_\_\_\_\_ AS-DIP48.6-048-TS01S-1 \_\_\_\_\_ | 1 = 1 piece  
 Pin Count (Top) \_\_\_\_\_  
 Pin Count (Bottom) \_\_\_\_\_ Footprint Code (See Footprint Section)

### FEMALE DIP → QFN/MLF TSOP SMT

Pin Count	TOP Socket Package Width (Inches)	Bottom Package Code Lead Pitch (mm)	Bottom SMT Package Code	Bottom SMT Body Width (Inches)	ET PART #	Drawing#
20	0.600	0.65	20-ML02	N/A	AS-DIP20.6-20ML02S-GEN	F6259
28	0.600	0.55	28-TS05	11.80	AS-DIP28.6Z-028-TS05S-1-S	F1044
28	0.600	0.50	28-ML03	N/A	AS-DIP28.6-28ML03S-GEN	F6260
32	0.600	0.50	32-TS01	18.40	AS-DIP32.6-032-TS01S-1-AT27C080	F4459

For a complete listing of emulator adapters pricing and delivery information, see:  
 Web Link: [www.1800adapter.com/093](http://www.1800adapter.com/093)



## QFP, SOIC, TSSOP, SSOP ZIF TO TSOP PACKAGE CONVERTERS

These adapters enable you to convert a surface mount pad footprint to a test socket.

### HOW TO ORDER

- 1) Locate the part number with the correct number of pins for the emulator pod and target socket.
- 2) All parts are wired 1-to-1, top to bottom.

**Ordering Information Example**

Product Code \_\_\_\_\_ (NTP) = No Test Points  
 \_\_\_\_\_ (TP) = with Test Points  
 Target SMT Pads \_\_\_\_\_ AP P-048-TS01Z-(2)-(NTP)  
 Pin Count \_\_\_\_\_ | 0 = w/out Production Socket  
 \_\_\_\_\_ | 1 = with Production Socket  
 \_\_\_\_\_ | 2 = with Burn-in Socket  
 Emulation Pod Receptacle Footprint \_\_\_\_\_ Z = ZIF Socket

### QFP, SOIC, TSSOP, SSOP ZIF → QFP, SOIC, TSSOP, SSOP SMT

Pin Count	Bottom SMT Width (mm)	Lead Pitch (mm)	Package Type	ET Part #	Drawing#
16	0.635	3.90	SSOP	APP-016-SS12Z-2-TP	F5931
28	1.27	7.62	SOIC	APP-028-SO03Z-2-NTP	F4347
30	0.80	11.00	SSOP	APP-030-SS36Z-2	F6156
32	1.27	10.16	TSOPII	APP-032-T202Z-2	F6286
32	0.50	18.40	TSOP	APP-032-TS01Z-2	F5069
40	0.50	18.40	TSOP	APP-040-TS01Z-2	F2420
44	0.80	10.16	TSOPII	APP-044-T212Z-2	F2098
48	0.50	18.40	TSOP	APP-048-TS01Z-2	F4339
50	0.80	10.16	TSOPII	APP-050-T212Z-2	F5736
54	0.80	10.16	TSOPII	APP-054-T212Z-2	F1031
56	0.50	18.40	TSOP	APP-056-TS01Z-2	F1662
64	0.80	12.00	TSOP	APP-064-SS11Z-2-TP	F5944
86	0.50	10.16	TSOPII	APP-086-T232Z-2	F6229
100	0.50	ZIF	QFP	APP-100-QF49Z-NTP	F4451
132	0.635	AMP	QFP	APP-132-QF0A-0-NTP	F2411
132	0.635	AMP	QFP	APP-132-QF03A-1-TP	F1175
144	0.650	AMP	QFP	APP-144-QF10A-1-TP	F1678

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For a complete listing of emulator adapters pricing and delivery information, see:  
 Web Link: [www.1800adapter.com/093](http://www.1800adapter.com/093)