



# UM10754

OM13491, OM13492, OM13493, OM13494, OM13495, OM13496,  
OM13497 Breakout Board

Rev. 2 — 4 October 2018

User manual

## Document information

Information	Content
Keywords	Fm+, I2C-bus, Surface Mount Package, Breakout Board, DIP Adapter, surface mount package
Abstract	Technical information for breakout boards allowing I2C-bus surface mount components to be easily evaluated



## Revision history

Rev	Date	Description
v.2	20181004	Added <a href="#">Figure 7</a> and <a href="#">Figure 8</a> ; updated Panel G information; removed EOL parts PCA9701HF, PCA9703HF, PCU9955TW; added PCAL6416AEX1 and PCAL6416AER; updated <a href="#">Table 1</a>
v.1	20131023	Initial version

## 1 Introduction

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The Breakout Boards OM13491, OM13492, OM13493, OM13494, OM13495, OM13496, and OM13497 allow surface mounted I<sup>2</sup>C-bus components to be easily evaluated by translating surface mount packages to a leaded package format with 100mil pin pitch.

## 2 Key features

### A wide variety of package types:

Almost all the surface mount package types used by NXP I<sup>2</sup>C-bus products are supported.

Table 1. Package Name to SOT drawing number conversion

OM #	Panel #	Package Name	SOT Number	Dimension (mm) L x W x Seating H	Pitch (mm)
13491	A-1	SO8	SOT96-1	4.9 x 3.9 x 1.75	1.27
13491	A-2	VSSOP8	SOT765-1	2 x 2.3 x 1	0.5
13491	A-3	XQFN8U	SOT902-1 (Replaced by SOT902-2)	1.6 x 1.6 x 0.5	0.55
13491	A-3	XQFN8	SOT902-2	1.6 x 1.6 x 0.5	0.55
13491	A-3	XQFN8	SOT902-3	1.6 x 1.6 x 0.5	0.6
13491	A-4,5	HWSON8	SOT1069-2	2 x 3 x 0.75	0.5
13491	A-6,7	MSOP8 (TSSOP8)	SOT505-1 (Replaced by SOT505-2)	3 x 3 x 1.1	0.65
13491	A-6,7	MSOP8 (TSSOP8)	SOT505-2	3 x 3 x 1.1	0.65
13491	A-6,7	TSSOP8	SOT505-1 (Replaced by SOT505-2)	3 x 3 x 1.1	0.65
13491	A-6,7	TSSOP8	SOT505-2	3 x 3 x 1.1	0.65
13492	B-1	MSOP10 (TSSOP10)	SOT552-1	3 x 3 x 1.1	0.5
13492	B-2	HVSON10	SOT650-1	3 x 3 x 0.85	0.5
13492	B-3	XSON8(U)	SOT996-2	3 x 2 x 0.5	0.5
13492	B-4	TSSOP8	SOT530-1	3 x 4.4 x 1.1	0.65
13492	B-5	HVSON8	SOT908-1	3 x 3 x 0.85	0.5
13492	B-5	HVSON8	SOT908-3	3 x 3 x 0.85	0.5
13492	B-6	WLCSP6	PCT2202	0.69 x 1.09 x 0.38	0.4
13492	B-7	TSOP6	SOT457	2.9 x 1.5 x 1	0.95
13492	B-7	TSOP6	SOT1353-1 (newer, add A2, A3, L dimension)	2.9 x 1.5 x 1	0.95
13493	C-1 (wrong silk screen SOT616-1)	DHVQFN24	SOT815-1	3.5 x 5.5 x 0.85	0.5
13493	C-2 (wrong silk screen SOT662-1)	DHVQFN20	SOT764-1	2.5 x 5.5 x 0.85	0.5
13493	C-3	DHVQFN16	SOT763-1	3.5 x 2.5 x 0.85	0.5
13493	C-4	DHVQFN14	SOT762-1	2.5 x 3 x 0.85	0.5
13494	D-1	HVQFN24	SOT616-1	4 x 4 x 0.85	0.5

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OM #	Panel #	Package Name	SOT Number	Dimension (mm) L x W x Seating H	Pitch (mm)
13494	D-1	HWQFN24	SOT994-1	4 x 4 x 0.75	0.5
13494	D-2	HVQFN20	SOT662-1	5 x 5 x 0.85	0.65
13494	D-3	HVQFN16	SOT758-1	3 x 3 x 0.85	0.5
13494	D-4	HVQFN16	SOT629-1	4 x 4 x 0.85	0.65
13495	E-1	TSSOP24	SOT355-1	7.8 x 4.4 x 1.1	0.65
13495	E-2	TSSOP20	SOT360-1	6.5 x 4.4 x 1.1	0.65
13495	E-2	TSSOP20	SOT360-2	6.5 x 4.4 x 1.05	0.65
13495	E-3	TSSOP16	SOT403-1	5 x 4.4 x 1.1	0.65
13495	E-4	TSSOP14	SOT402-1	5 x 4.4 x 1.1	0.65
13496	F-1	TSSOP28	SOT361-1	9.7 x 4.4 x 1.1	0.65
13496	F-1	TSSOP28	SOT361-2	9.7 x 4.4 x 1.2	0.65
13496	F-2	XQFN16	SOT1161-1	1.8 x 2.6 x 0.5	0.4
13496	F-3	QSOP16 (SSOP16)	SOT519-1	4.9 x 3.9 x 1.73	0.635
13496	F-4	XFBGA16	SOT1354-1	1.6 x 1.6 x 0.5	0.4
13497	G-1	HTSSOP28	SOT1172-1 (Replace by SOT1172-2)	9.7 x 4.4 x 1.1	0.65
13497	G-1	HTSSOP28	SOT1172-2 (add reflow slodering footprint)	9.7 x 4.4 x 1.1	0.65
13497	G-1	HTSSOP28	SOT1172-3 (Dh dimension is smaller than SOT1172-2)	9.7 x 4.4 x 1.1	0.65
13497	G-2	VFBGA24	SOT1199-1	3 x 3 x 0.85	0.5
13497	G-3 (wrong silk screen SOT1372-1)	XFBGA24	SOT1342-1	2 x 2 x 0.5	0.4
#N/A		HVSON8	SOT908-4	2 x 2 x 0.85	0.5
#N/A		HXSON12	SOT973-2	2.5 x 1.35 x 0.5	0.4
#N/A		X2SON8	SOT1372-1	3 x 2 x 0.35	0.5
#N/A		SSOP16	SOT338-1	6.2 x 5.3 x 2	0.65
#N/A		SSOP20	SOT266-1	6.5 x 4.4 x 1.5	0.65
#N/A		SSOP24	SOT340-1	8.2 x 5.3 x 2	0.65
#N/A		SO8	SOT176-1	7.55 x 7.5 x 2.65	1.27
#N/A		SO16	SOT162-1	10.2 x 7.5 x 2.65	1.27
#N/A		SO20	SOT163-1	12.8 x 7.5 x 2.65	1.27
#N/A		SO24	SOT137-1	15.3 x 7.5 x 2.65	1.27
#N/A		X2QFN24	SOT1895-1	2 x 2 x 0.35	0.4

OM #	Panel #	Package Name	SOT Number	Dimension (mm) L x W x Seating H	Pitch (mm)
#N/A		HVQFN20	SOT917-1 (Replace by SOT917-4)	4 x 4 x 0.85	0.5

**Translation to leaded pins:**

The breakout boards translate the surface mount package to a leaded package with 100 mil pitch, allowing quick and easy bread boarding in standard configurations.

### 3 Quick overview of the breakout board concept

There are seven different breakout boards, each supporting a number of different surface mount packages. If one wishes to evaluate a device, simply solder a surface mount device to the appropriate site and break out the site from the panel by cutting through the small tabs holding each board in place. If one is using a universal breadboard for evaluation, solder header pins to the outside pads, allowing one to insert the device into the breadboard.

For a more permanent connection, one can simply solder hookup wire to the outside pads.

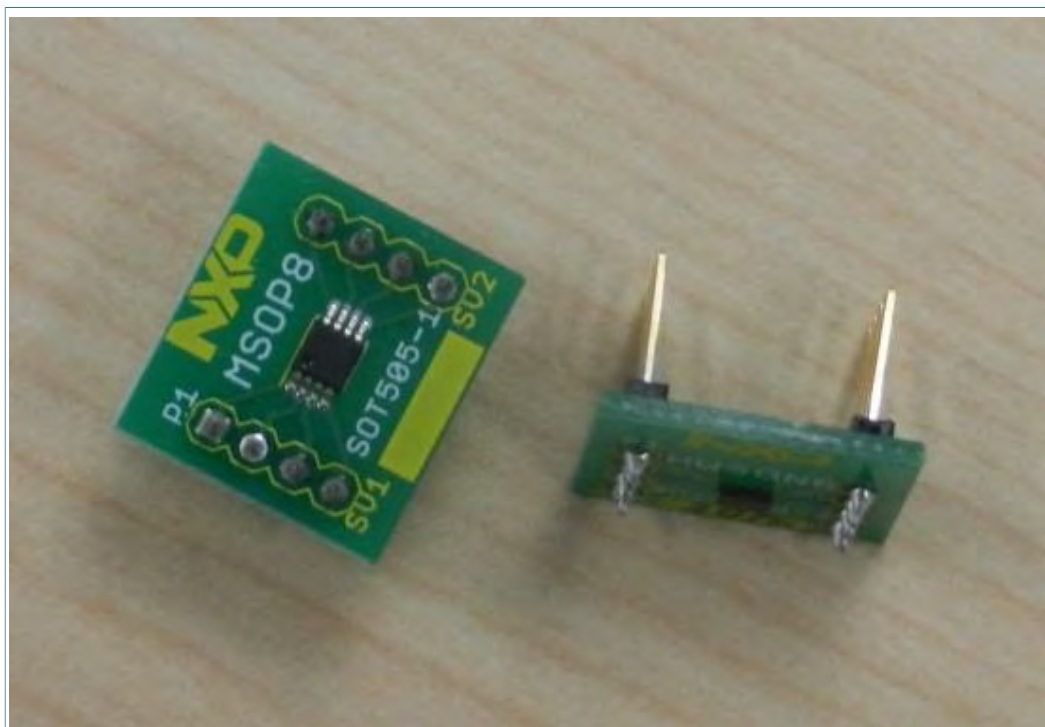


Figure 1. Breakout board with headers assembly



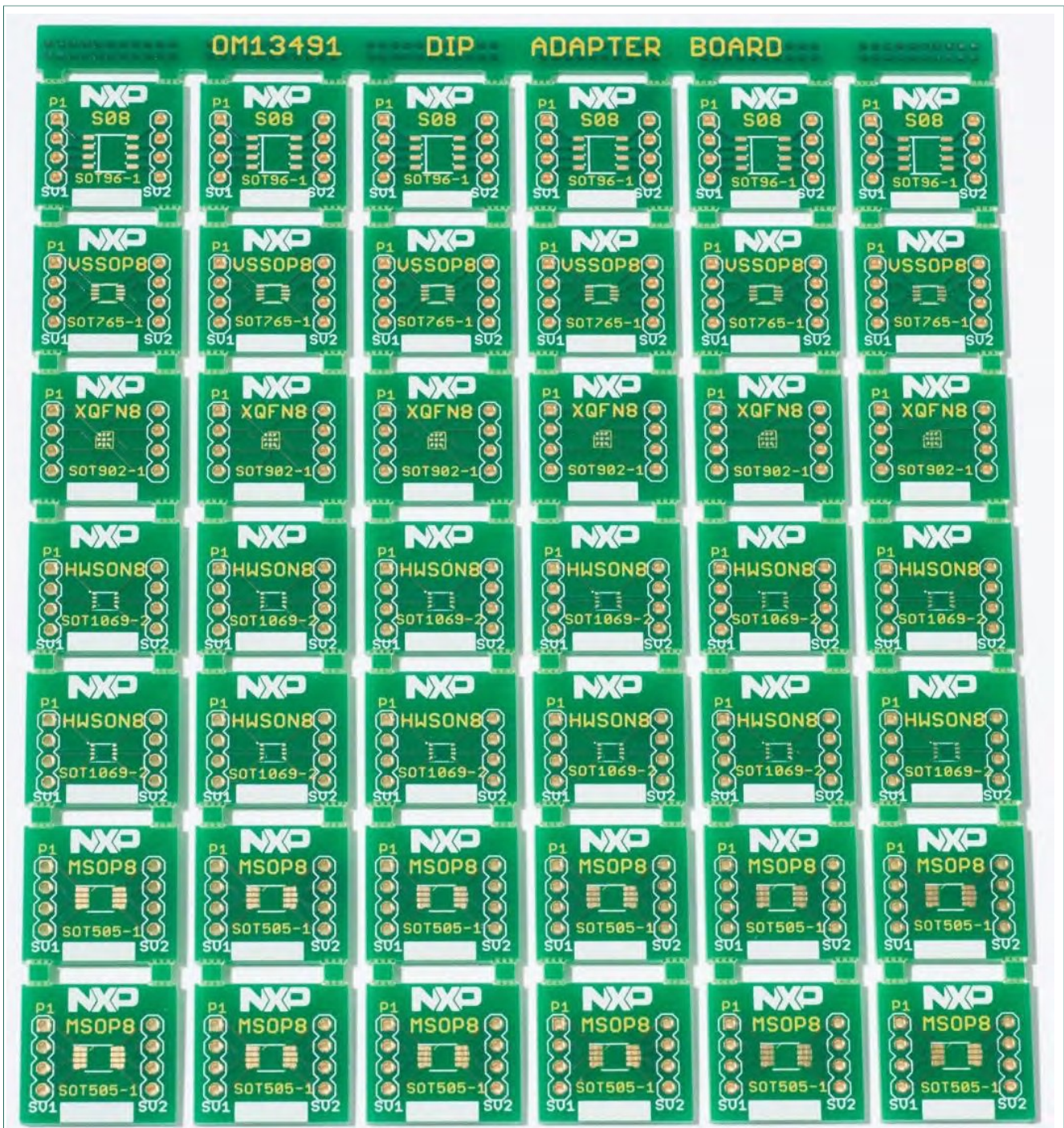


Figure 2. Panel A – consisting of six positions each of SO8, VSSOP8, XQFN8, 2xHWSON8 and 2xMSOP8



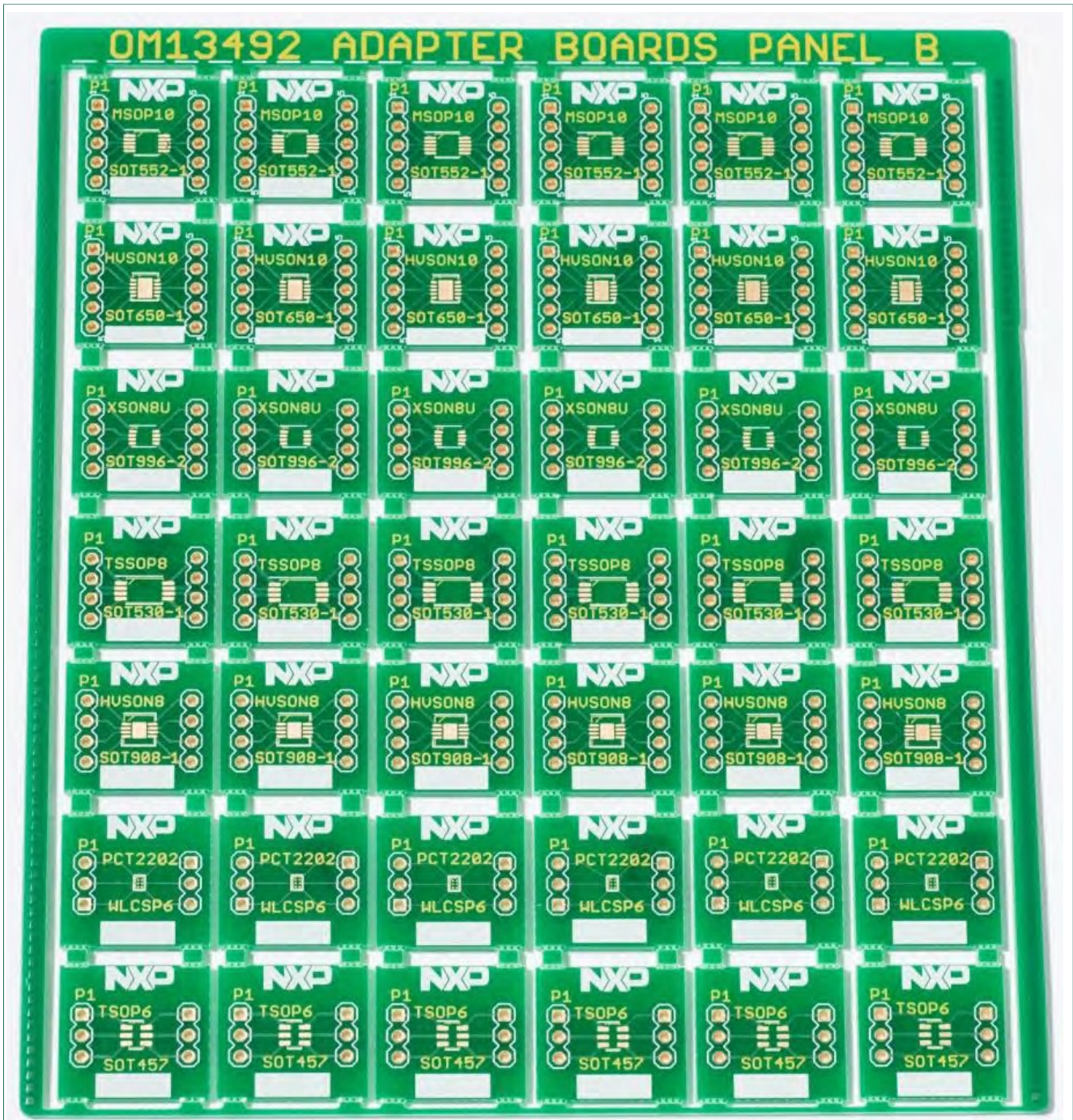


Figure 3. Panel B – consisting of six positions each of MSOP10, HUSON10, XSON8U, TSSOP8, HVSON8, PCT2202 / WLCSP6 and TSOP6



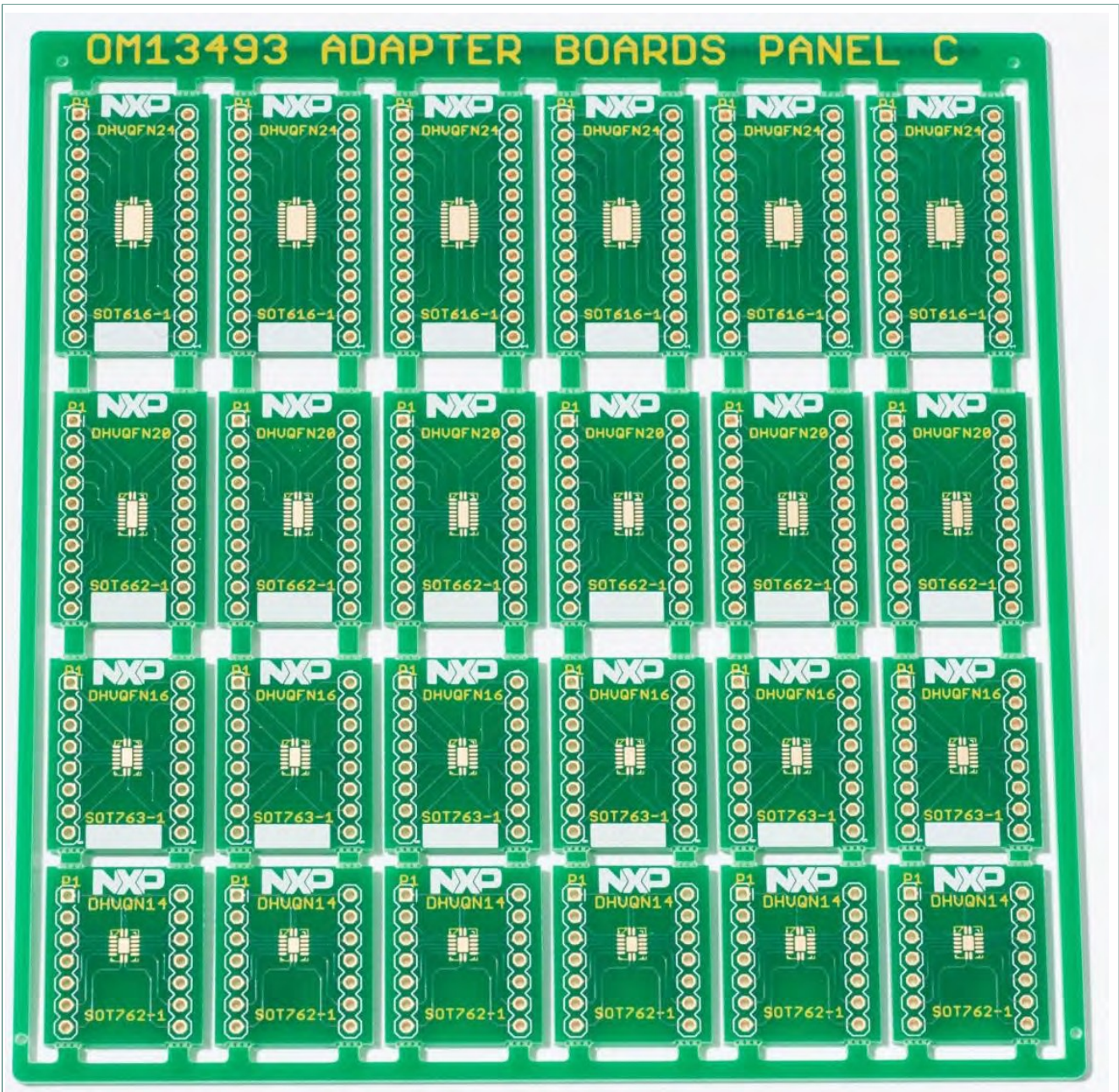


Figure 4. Panel C – consisting of six each of DHVQFN24, DHVQFN20, DHVQFN16, DHVQFN14



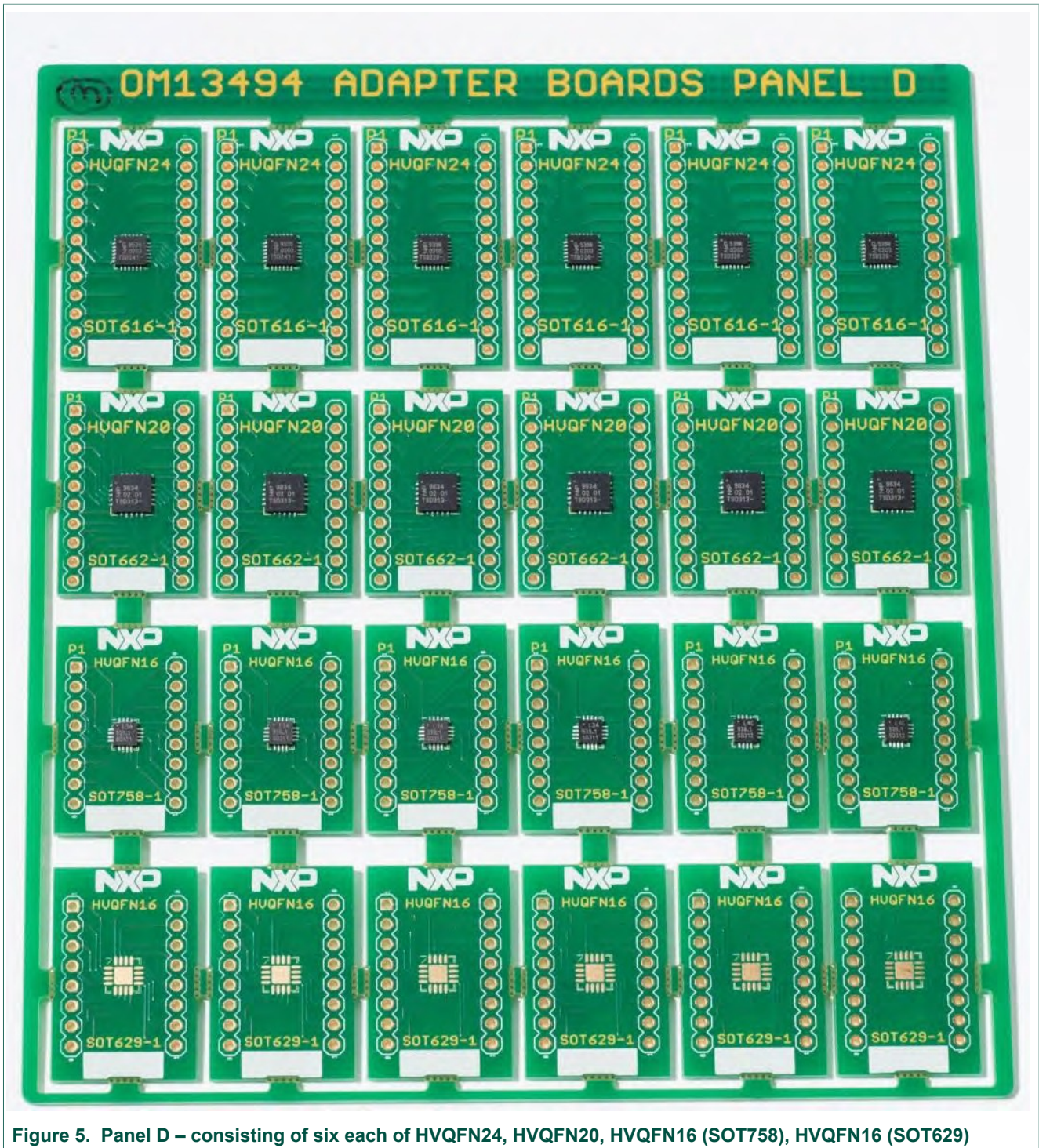


Figure 5. Panel D – consisting of six each of HVQFN24, HVQFN20, HVQFN16 (SOT758), HVQFN16 (SOT629)



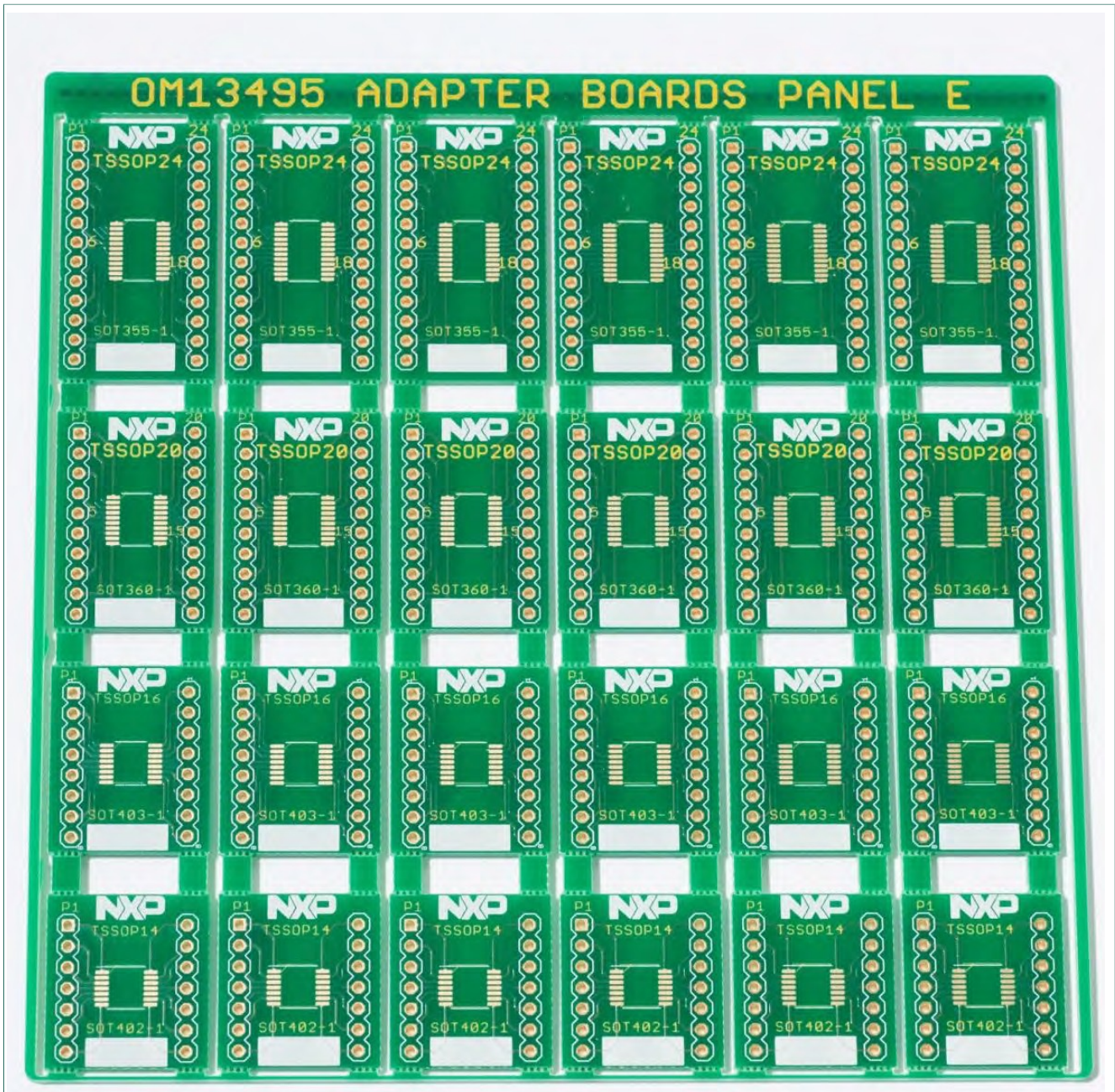


Figure 6. Panel E – consisting of six each TSSOP24, TSSOP20, TSSOP16, TSSOP14



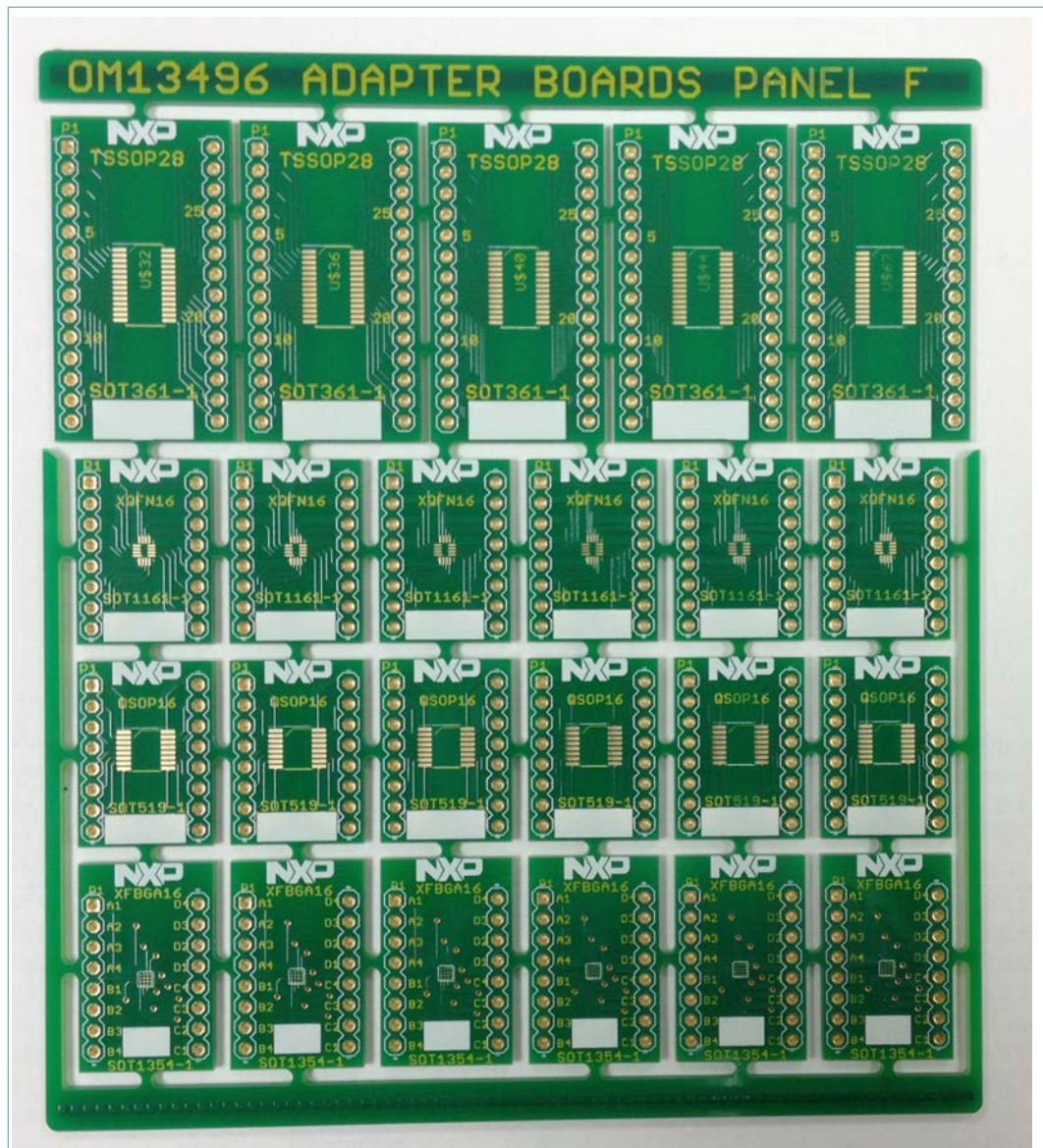


Figure 7. Panel F – consisting of five TSSOP28 and six positions each of XQFN16, QSOP16 and XFBGA16

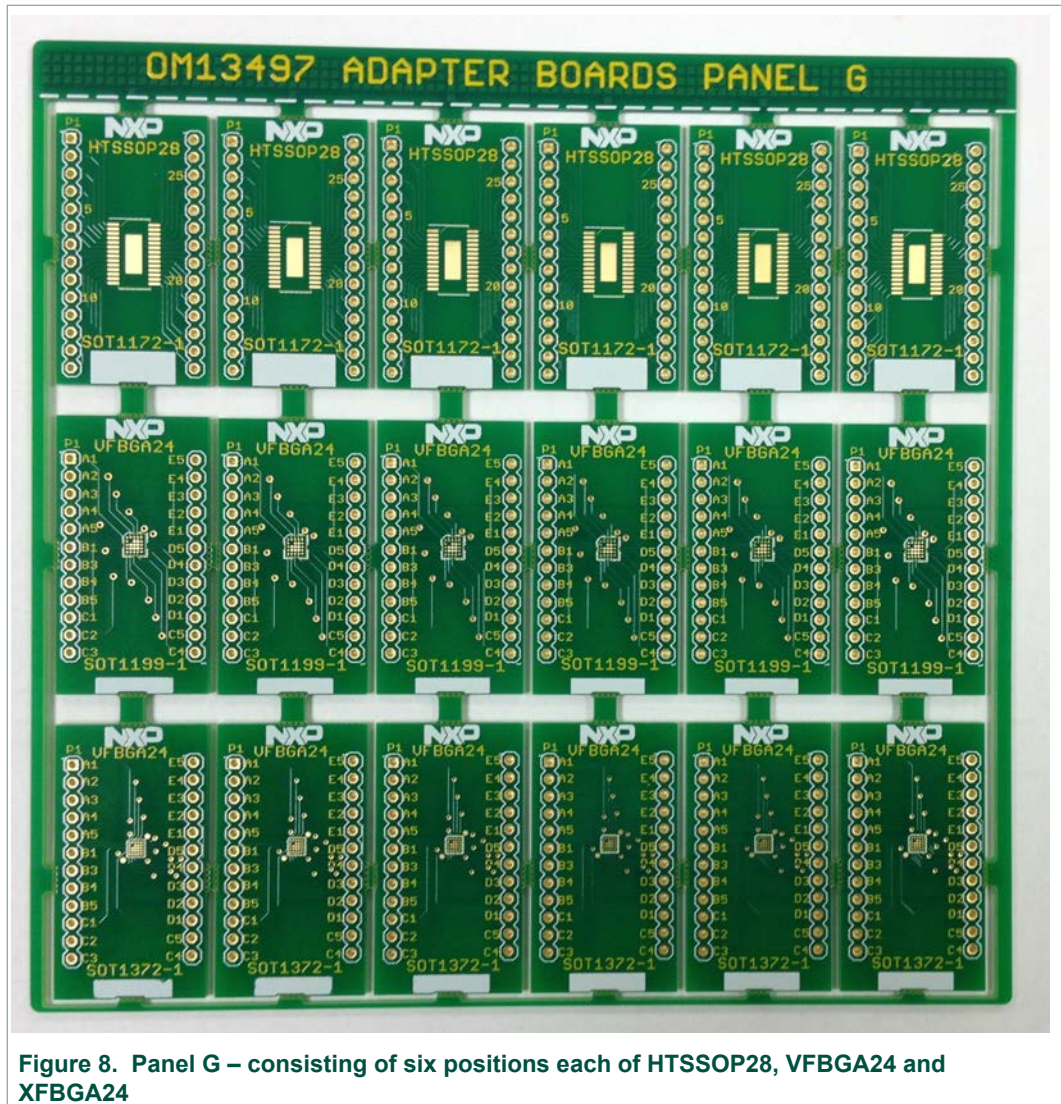


Figure 8. Panel G – consisting of six positions each of HTSSOP28, VFBGA24 and XFBGA24



## 4 Package listing – which panel contains a specific package

Table 2. Panel Number by Package SOT Number

Package SOT Number	Package Name	Panel
PCT2202UK	WLCSP6	Panel B - OM13492
SOT1069-2	HWSON8	Panel A - OM13491
SOT1161-1	XQFN16	Panel F - OM13496
SOT1172-1	HTSSOP28	Panel G - OM13497
SOT1199-1	VFBGA24	Panel G - OM13497
SOT1342-1	XFBGA24	Panel G - OM13497 <sup>[1]</sup>
SOT1353-1, SOT457	TSOP6	Panel B - OM13492
SOT1354-1	XFBGA16	Panel F - OM13496
SOT355-1	TSSOP24	Panel E - OM13495
SOT360-1	TSSOP20	Panel E - OM13495
SOT361-1	TSSOP28	Panel F - OM13496
SOT402-1	TSSOP14	Panel E - OM13495
SOT403-1	TSSOP16	Panel E - OM13495
SOT505-1	MSOP8	Panel A - OM13491
SOT519-1	QSOP16	Panel F - OM13496
SOT530-1	TSSOP8	Panel B - OM13492
SOT552-1	MSOP10	Panel B - OM13492
SOT815-1 <sup>[2]</sup>	DHVQFN24	Panel C - OM13493
SOT616-1	HVQFN24	Panel D - OM13494
SOT629-1	HVQFN14	Panel D - OM13494
SOT650-1	HVSON10	Panel B - OM13492
SOT764-1	DHVQFN20	Panel C - OM13493
SOT662-1 <sup>[3]</sup>	HVQFN20	Panel D - OM13494
SOT758-1	HVQFN16	Panel D - OM13494
SOT762-1	DHVQFN14	Panel C - OM13493
SOT763-1	DHVQFN16	Panel C - OM13493
SOT765-1	VSSOP8	Panel A - OM13491
SOT902-1	XQFN8	Panel A - OM13491
SOT908-1	HVSON8	Panel B - OM13492
SOT96-1	SO8	Panel A - OM13491
SOT996-2	XSON8U	Panel B - OM13492

[1] Silk Screen error on 3rd row of panel G, it should be XFBGA24, SOT1342-1

[2] Panel C row 1 silk screen error, it should be SOT815-1

[3] Silk screen error on panel C row 2, it should be SOT764-1

## 5 Panel contents – what each panel contains

Table 3. Panel Contents

Panel Description	Package Name	Package SOT Number
<b>Panel A - OM13491</b>		
	SO8	SOT96-1
	VSSOP8	SOT765-1
	XQFN8	SOT902-1
	HWSON8 x 2	SOT1069-2
	MSOP8 x 2	SOT505-1
<b>Panel B - OM13492</b>		
	MSOP10	SOT552-1
	HVSON10	SOT650-1
	XSON8U	SOT996-2
	TSSOP8	SOT530-1
	HVSON8	SOT908-1
	WLCSP6	PCT2202UK
	TSOP6	SOT1353-1, SOT457
<b>Panel C - OM13493</b>		
	DHVQFN24	SOT815-1
	DHVQFN20	SOT764-1
	DHVQFN16	SOT763-1
	DHVQFN14	SOT762-1
<b>Panel D - OM13494</b>		
	HVQFN24	SOT616-1
	HVQFN20	SOT662-1
	HVQFN16	SOT758-1
	HVQFN16	SOT629-1
<b>Panel E - OM13495</b>		
	TSSOP24	SOT355-1
	TSSOP20	SOT360-1
	TSSOP16	SOT403-1
	TSSOP14	SOT402-1
<b>Panel F - OM13496</b>		
	TSSOP28	SOT361-1
	XQFN16	SOT1161-1
	QSOP16	SOT519-1
	XFBGA16	SOT1354-1

Panel Description	Package Name	Package SOT Number
<b>Panel G - OM13497</b>		
	HTSSOP28	SOT1172-1
	VFBGA24	SOT1199-1
	XFBGA24	SOT1342-1

## 6 Part number listing with panel support

As a convenience, below is a listing of most of the I<sup>2</sup>C-bus devices offered by NXP. Instead of consulting the datasheet for the package name and package SOT number, simply look up the alpha-numeric part number listing and note the appropriate Panel Number.

**NOTE:** Pay close attention to the suffix which denotes the package type when looking up the part number

**Table 4. Part number with corresponding panel number support**

Panel Number	Panel Number	Package Name	Package SOT Number
GTL2002D	Panel A - OM13491	SO8	SOT96-1
GTL2002DC	Panel A - OM13491	VSSOP8	SOT765-1
GTL2002DP	Panel A - OM13491	TSSOP8	SOT505-1
GTL2002GM	Panel A - OM13491	XQFN8	SOT902-1
GTL2003BQ	Panel C - OM13493	DHVQFN20	SOT764-1
GTL2003PW	Panel E - OM13495	TSSOP20	SOT360-1
GTL2005PW	Panel E - OM13495	TSSOP14	SOT402-1
GTL2006PW	Panel F - OM13496	TSSOP28	SOT361-1
GTL2007PW	Panel F - OM13496	TSSOP28	SOT361-1
GTL2008PW	Panel F - OM13496	TSSOP28	SOT361-1
GTL2010BS	Panel C - OM13493	HVQFN24	SOT616-1
GTL2010PW	Panel E - OM13495	TSSOP24	SOT355-1
GTL2012DP	Panel A - OM13491	TSSOP8	SOT505-1
GTL2014PW	Panel E - OM13495	TSSOP14	SOT402-1
GTL2018PW	Panel E - OM13495	TSSOP24	SOT355-1
GTL2034PW	Panel E - OM13495	TSSOP14	SOT402-1
GTL2107PW	Panel F - OM13496	TSSOP28	SOT361-1
LM75AD	Panel A - OM13491	SO8	SOT96-1
LM75ADP	Panel A - OM13491	TSSOP8	SOT505-1
LM75BD	Panel A - OM13491	SO8	SOT96-1
LM75BDP	Panel A - OM13491	TSSOP8	SOT505-1
LM75BGD	Panel B - OM13492	XSON8	SOT996-2
LM75BTP	Panel A - OM13491	HWSO8	SOT1069-2
NE1617ADS	Panel F - OM13496	SSOP16	SOT519-1
NVT2002D	Panel A - OM13491	SO8	SOT96-1
NVT2002DP	Panel A - OM13491	TSSOP8	SOT505-1
NVT2002GD	Panel B - OM13492	XSON8	SOT996-2
NVT2003DP	Panel B - OM13492	TSSOP10	SOT552-1
NVT2006BQ	Panel C - OM13493	DHVQFN16	SOT763-1

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Panel Number	Panel Number	Package Name	Package SOT Number
NVT2006BS	Panel D - OM13494	HVQFN16	SOT758-1
NVT2006PW	Panel E - OM13495	TSSOP16	SOT403-1
NVT2008BQ	Panel C - OM13493	DHVQFN20	SOT764-1
NVT2008PW	Panel E - OM13495	TSSOP20	SOT360-1
NVT2010BQ	Panel C - OM13493	DHVQFN24	SOT815-1
NVT2010BS	Panel C - OM13493	HVQFN24	SOT616-1
NVT2010PW	Panel E - OM13495	TSSOP24	SOT355-1
NVT4555BS	Panel D - OM13494	HVQFN16	SOT758-1
P82B715TD	Panel A - OM13491	SO8	SOT96-1
P82B96DP	Panel A - OM13491	TSSOP8	SOT505-1
P82B96TD	Panel A - OM13491	SO8	SOT96-1
PCA24S08AD	Panel A - OM13491	SO8	SOT96-1
PCA24S08ADP	Panel A - OM13491	TSSOP8	SOT505-1
PCA6408ABS	Panel D - OM13494	HVQFN16	SOT758-1
PCA6408AHK	Panel A - OM13491	XQFN16	SOT1161-1
PCA6408APW	Panel E - OM13495	TSSOP16	SOT403-1
PCA6416AEV	#N/A	VFBGA24	SOT1199-1
PCA6416AHF	#N/A	HWQFN24	SOT994-1
PCA6416APW	Panel E - OM13495	TSSOP24	SOT355-1
PCA8550DB	#N/A	SSOP16	SOT338-1
PCA8550PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA8574AD	#N/A	SO16	SOT162-1
PCA8574APW	Panel E - OM13495	TSSOP16	SOT403-1
PCA8574ATS	#N/A	SSOP20	SOT266-1
PCA8574D	#N/A	SO16	SOT162-1
PCA8574PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA8574TS	#N/A	SSOP20	SOT266-1
PCA8575BQ	Panel C - OM13493	DHVQFN24	SOT815-1
PCA8575BS	Panel C - OM13493	HVQFN24	SOT616-1
PCA8575D	#N/A	SO24	SOT137-1
PCA8575DB	#N/A	SSOP24	SOT340-1
PCA8575PW	Panel E - OM13495	TSSOP24	SOT355-1
PCA9306D	Panel A - OM13491	SO8	SOT96-1
PCA9306DC	Panel A - OM13491	VSSOP8	SOT765-1
PCA9306DC1	Panel A - OM13491	VSSOP8	SOT765-1
PCA9306DP	Panel A - OM13491	TSSOP8	SOT505-1

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Panel Number	Panel Number	Package Name	Package SOT Number
PCA9306DP1	Panel A - OM13491	TSSOP8	SOT505-1
PCA9306GD1	Panel B - OM13492	XSON8	SOT996-2
PCA9306GM	Panel A - OM13491	XQFN8	SOT902-1
PCA9406DC	Panel A - OM13491	VSSOP8	SOT765-1
PCA9406DP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9500BS	Panel D - OM13494	HVQFN16	SOT629-1
PCA9500D	#N/A	SO16	SOT162-1
PCA9500PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9501BS	Panel C - OM13493	HVQFN20	SOT662-1
PCA9501D	#N/A	SO20	SOT163-1
PCA9501PW	Panel E - OM13495	TSSOP20	SOT360-1
PCA9507D	Panel A - OM13491	SO8	SOT96-1
PCA9507DP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9508D	Panel A - OM13491	SO8	SOT96-1
PCA9508DP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9509ADP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9509AGM	Panel A - OM13491	XQFN8	SOT902-1
PCA9509D	Panel A - OM13491	SO8	SOT96-1
PCA9509DP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9509GM	Panel A - OM13491	XQFN8	SOT902-1
PCA9509PDP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9509PGM	Panel A - OM13491	XQFN8	SOT902-1
PCA9510AD	Panel A - OM13491	SO8	SOT96-1
PCA9510ADP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9511AD	Panel A - OM13491	SO8	SOT96-1
PCA9511ADP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9512AD	Panel A - OM13491	SO8	SOT96-1
PCA9512ADP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9512BD	Panel A - OM13491	SO8	SOT96-1
PCA9512BDP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9513AD	Panel A - OM13491	SO8	SOT96-1
PCA9513ADP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9514AD	Panel A - OM13491	SO8	SOT96-1
PCA9514ADP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9515AD	Panel A - OM13491	SO8	SOT96-1
PCA9515ADP	Panel A - OM13491	TSSOP8	SOT505-1



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Panel Number	Panel Number	Package Name	Package SOT Number
PCA9515ATP	Panel A - OM13491	HWSON8	SOT1069-2
PCA9515D	Panel A - OM13491	SO8	SOT96-1
PCA9515DP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9516APW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9517AD	Panel A - OM13491	SO8	SOT96-1
PCA9517ADP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9517ATP	Panel A - OM13491	HWSON8	SOT1069-2
PCA9517D	Panel A - OM13491	SO8	SOT96-1
PCA9517DP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9518AD	#N/A	SO20	SOT163-1
PCA9518APW	Panel E - OM13495	TSSOP20	SOT360-1
PCA9518PW	Panel E - OM13495	TSSOP20	SOT360-1
PCA9519BS	Panel C - OM13493	HVQFN24	SOT616-1
PCA9519PW	Panel E - OM13495	TSSOP20	SOT360-1
PCA9521D	Panel A - OM13491	SO8	SOT96-1
PCA9521DP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9522D	Panel A - OM13491	SO8	SOT96-1
PCA9522DP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9525D	Panel A - OM13491	SO8	SOT96-1
PCA9525DP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9527DP	Panel B - OM13492	TSSOP10	SOT552-1
PCA9530D	Panel A - OM13491	SO8	SOT96-1
PCA9530DP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9531BS	Panel D - OM13494	HVQFN16	SOT629-1
PCA9531PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9532BS	Panel C - OM13493	HVQFN24	SOT616-1
PCA9532D	#N/A	SO24	SOT137-1
PCA9532PW	Panel E - OM13495	TSSOP24	SOT355-1
PCA9533D	Panel A - OM13491	SO8	SOT96-1
PCA9533DP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9534BS	Panel D - OM13494	HVQFN16	SOT629-1
PCA9534BS3	Panel D - OM13494	HVQFN16	SOT758-1
PCA9534D	#N/A	SO16	SOT162-1
PCA9534PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9535AHF	#N/A	HWQFN24	SOT994-1
PCA9535APW	Panel E - OM13495	TSSOP24	SOT355-1

## OM13491, OM13492, OM13493, OM13494, OM13495, OM13496, OM13497 Breakout Board

Panel Number	Panel Number	Package Name	Package SOT Number
PCA9535BS	Panel C - OM13493	HVQFN24	SOT616-1
PCA9535CD	#N/A	SO24	SOT137-1
PCA9535CHF	#N/A	HWQFN24	SOT994-1
PCA9535CPW	Panel E - OM13495	TSSOP24	SOT355-1
PCA9535D	#N/A	SO24	SOT137-1
PCA9535HF	#N/A	HWQFN24	SOT994-1
PCA9535PW	Panel E - OM13495	TSSOP24	SOT355-1
PCA9536D	Panel A - OM13491	SO8	SOT96-1
PCA9536DP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9536TK	Panel B - OM13492	HVSON8	SOT908-1
PCA9537DP	Panel B - OM13492	TSSOP10	SOT552-1
PCA9538ABS	Panel D - OM13494	HVQFN16	SOT758-1
PCA9538APW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9538BS	Panel D - OM13494	HVQFN16	SOT629-1
PCA9538D	#N/A	SO16	SOT162-1
PCA9538PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9539AHF	#N/A	HWQFN24	SOT994-1
PCA9539APW	Panel E - OM13495	TSSOP24	SOT355-1
PCA9539BS	Panel C - OM13493	HVQFN24	SOT616-1
PCA9539D	#N/A	SO24	SOT137-1
PCA9539PW	Panel E - OM13495	TSSOP24	SOT355-1
PCA9539RBS	Panel C - OM13493	HVQFN24	SOT616-1
PCA9539RPW	Panel E - OM13495	TSSOP24	SOT355-1
PCA9540BD	Panel A - OM13491	SO8	SOT96-1
PCA9540BDP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9540BGD	Panel B - OM13492	XSON8	SOT996-2
PCA9541ABS	Panel D - OM13494	HVQFN16	SOT629-1
PCA9541APW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9541BS	Panel D - OM13494	HVQFN16	SOT629-1
PCA9541PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9542APW	Panel E - OM13495	TSSOP14	SOT402-1
PCA9543APW	Panel E - OM13495	TSSOP14	SOT402-1
PCA9543BPW	Panel E - OM13495	TSSOP14	SOT402-1
PCA9544ABS	Panel C - OM13493	HVQFN20	SOT662-1
PCA9544AD	#N/A	SO20	SOT163-1
PCA9544APW	Panel E - OM13495	TSSOP20	SOT360-1

## OM13491, OM13492, OM13493, OM13494, OM13495, OM13496, OM13497 Breakout Board

Panel Number	Panel Number	Package Name	Package SOT Number
PCA9545ABS	Panel C - OM13493	HVQFN20	SOT662-1
PCA9545AD	#N/A	SO20	SOT163-1
PCA9545APW	Panel E - OM13495	TSSOP20	SOT360-1
PCA9545BPW	Panel E - OM13495	TSSOP20	SOT360-1
PCA9545CPW	Panel E - OM13495	TSSOP20	SOT360-1
PCA9546ABS	Panel D - OM13494	HVQFN16	SOT629-1
PCA9546APW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9547BS	Panel C - OM13493	HVQFN24	SOT616-1
PCA9547D	#N/A	SO24	SOT137-1
PCA9547PW	Panel E - OM13495	TSSOP24	SOT355-1
PCA9548ABS	Panel C - OM13493	HVQFN24	SOT616-1
PCA9548AD	#N/A	SO24	SOT137-1
PCA9548APW	Panel E - OM13495	TSSOP24	SOT355-1
PCA9550D	Panel A - OM13491	SO8	SOT96-1
PCA9550DP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9551BS	Panel D - OM13494	HVQFN16	SOT629-1
PCA9551PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9552BS	Panel C - OM13493	HVQFN24	SOT616-1
PCA9552D	#N/A	SO24	SOT137-1
PCA9552PW	Panel E - OM13495	TSSOP24	SOT355-1
PCA9553D	Panel A - OM13491	SO8	SOT96-1
PCA9553DP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9553TK	Panel B - OM13492	HVSON8	SOT908-1
PCA9554ABS	Panel D - OM13494	HVQFN16	SOT629-1
PCA9554ABS3	Panel D - OM13494	HVQFN16	SOT758-1
PCA9554AD	#N/A	SO16	SOT162-1
PCA9554ADB	#N/A	SSOP16	SOT338-1
PCA9554APW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9554ATS	#N/A	SSOP20	SOT266-1
PCA9554BBS	Panel D - OM13494	HVQFN16	SOT758-1
PCA9554BPW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9554BS	Panel D - OM13494	HVQFN16	SOT629-1
PCA9554BS3	Panel D - OM13494	HVQFN16	SOT758-1
PCA9554CBS	Panel D - OM13494	HVQFN16	SOT758-1
PCA9554CPW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9554D	#N/A	SO16	SOT162-1

## OM13491, OM13492, OM13493, OM13494, OM13495, OM13496, OM13497 Breakout Board

Panel Number	Panel Number	Package Name	Package SOT Number
PCA9554DB	#N/A	SSOP16	SOT338-1
PCA9554PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9554TS	#N/A	SSOP20	SOT266-1
PCA9555AHF	#N/A	HWQFN24	SOT994-1
PCA9555APW	Panel E - OM13495	TSSOP24	SOT355-1
PCA9555BS	Panel C - OM13493	HVQFN24	SOT616-1
PCA9555D	#N/A	SO24	SOT137-1
PCA9555DB	#N/A	SSOP24	SOT340-1
PCA9555HF	#N/A	HWQFN24	SOT994-1
PCA9555PW	Panel E - OM13495	TSSOP24	SOT355-1
PCA9556PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9557BS	Panel D - OM13494	HVQFN16	SOT629-1
PCA9557PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9558PW	Panel F - OM13496	TSSOP28	SOT361-1
PCA9559PW	Panel E - OM13495	TSSOP20	SOT360-1
PCA9560PW	Panel E - OM13495	TSSOP20	SOT360-1
PCA9561PW	Panel E - OM13495	TSSOP20	SOT360-1
PCA9564BS	Panel C - OM13493	HVQFN20	SOT662-1
PCA9564D	#N/A	SO20	SOT163-1
PCA9564PW	Panel E - OM13495	TSSOP20	SOT360-1
PCA9570GM	Panel A - OM13491	XQFN8	SOT902-1
PCA9574BS	Panel D - OM13494	HVQFN16	SOT758-1
PCA9574HK	Panel A - OM13491	XQFN16	SOT1161-1
PCA9574PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9575HF	#N/A	HWQFN24	SOT994-1
PCA9575PW1	Panel E - OM13495	TSSOP24	SOT355-1
PCA9575PW2	Panel F - OM13496	TSSOP28	SOT361-1
PCA9600D	Panel A - OM13491	SO8	SOT96-1
PCA9600DP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9601D	Panel A - OM13491	SO8	SOT96-1
PCA9601DP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9605D	Panel A - OM13491	SO8	SOT96-1
PCA9605DP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9614DP	Panel B - OM13492	TSSOP10	SOT552-1
PCA9616PW	Panel E - OM13495	TSSOP14	SOT402-1
PCA9617ADP	Panel A - OM13491	TSSOP8	SOT505-1

## OM13491, OM13492, OM13493, OM13494, OM13495, OM13496, OM13497 Breakout Board

Panel Number	Panel Number	Package Name	Package SOT Number
PCA9617ATP	Panel A - OM13491	HWSON8	SOT1069-2
PCA9617DP	Panel A - OM13491	TSSOP8	SOT505-1
PCA9617TP	Panel A - OM13491	HWSON8	SOT1069-2
PCA9621PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9624BS	Panel C - OM13493	HVQFN24	SOT616-1
PCA9624PW	Panel E - OM13495	TSSOP24	SOT355-1
PCA9629APW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9629PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9632DP1	Panel A - OM13491	TSSOP8	SOT505-1
PCA9632DP2	Panel B - OM13492	TSSOP10	SOT552-1
PCA9632TK	Panel B - OM13492	HVSON8	SOT908-1
PCA9632TK2	Panel B - OM13492	HVSON10	SOT650-1
PCA9633BS	Panel D - OM13494	HVQFN16	SOT629-1
PCA9633DP1	Panel A - OM13491	TSSOP8	SOT505-1
PCA9633DP2	Panel B - OM13492	TSSOP10	SOT552-1
PCA9633PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9633TK	Panel B - OM13492	HVSON8	SOT908-1
PCA9634BS	Panel C - OM13493	HVQFN20	SOT662-1
PCA9634D	#N/A	SO20	SOT163-1
PCA9634PW	Panel E - OM13495	TSSOP20	SOT360-1
PCA9635PW	Panel F - OM13496	TSSOP28	SOT361-1
PCA9646PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9665APW	Panel E - OM13495	TSSOP20	SOT360-1
PCA9665BS	Panel C - OM13493	HVQFN20	SOT662-1
PCA9665D	#N/A	SO20	SOT163-1
PCA9665PW	Panel E - OM13495	TSSOP20	SOT360-1
PCA9670BS	Panel D - OM13494	HVQFN16	SOT758-1
PCA9670D	#N/A	SO16	SOT162-1
PCA9670PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9671BS	Panel C - OM13493	HVQFN24	SOT616-1
PCA9671D	#N/A	SO24	SOT137-1
PCA9671PW	Panel E - OM13495	TSSOP24	SOT355-1
PCA9672BS	Panel D - OM13494	HVQFN16	SOT758-1
PCA9672D	#N/A	SO16	SOT162-1
PCA9672PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9673BS	Panel C - OM13493	HVQFN24	SOT616-1

## OM13491, OM13492, OM13493, OM13494, OM13495, OM13496, OM13497 Breakout Board

Panel Number	Panel Number	Package Name	Package SOT Number
PCA9673D	#N/A	SO24	SOT137-1
PCA9673PW	Panel E - OM13495	TSSOP24	SOT355-1
PCA9674ABS	Panel D - OM13494	HVQFN16	SOT758-1
PCA9674AD	#N/A	SO16	SOT162-1
PCA9674APW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9674BS	Panel D - OM13494	HVQFN16	SOT758-1
PCA9674D	#N/A	SO16	SOT162-1
PCA9674PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9675BS	Panel C - OM13493	HVQFN24	SOT616-1
PCA9675D	#N/A	SO24	SOT137-1
PCA9675PW	Panel E - OM13495	TSSOP24	SOT355-1
PCA9685PW	Panel F - OM13496	TSSOP28	SOT361-1
PCA9701D	#N/A	SO24	SOT137-1
PCA9701PW	Panel E - OM13495	TSSOP24	SOT355-1
PCA9702PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9703PW	Panel E - OM13495	TSSOP24	SOT355-1
PCA9922PW	Panel E - OM13495	TSSOP16	SOT403-1
PCA9952TW	#N/A	HTSSOP28	SOT1172-2 <sup>[1]</sup>
PCA9955TW	#N/A	HTSSOP28	SOT1172-2 <sup>[1]</sup>
PCA9955BTW	#N/A	HTSSOP28	SOT1172-3 <sup>[1]</sup>
PCAL6408ABS	Panel D - OM13494	HVQFN16	SOT758-1
PCAL6408AHK	Panel A - OM13491	XQFN16	SOT1161-1
PCAL6408APW	Panel E - OM13495	TSSOP16	SOT403-1
PCAL6416AEV	#N/A	VFBGA24	SOT1199-1
PCAL6416AEX	#N/A	XFBGA24	SOT1342-1
PCAL6416AEX1	#N/A	X2QFN24	SOT1895-1
PCAL6416AER	#N/A	UFBGA24	SOT1361-1
PCAL6416AHF	#N/A	HWQFN24	SOT994-1
PCAL6416APW	Panel E - OM13495	TSSOP24	SOT355-1
PCAL9535AHF	#N/A	HWQFN24	SOT994-1
PCAL9535APW	Panel E - OM13495	TSSOP24	SOT355-1
PCAL9538ABS	Panel D - OM13494	HVQFN16	SOT758-1
PCAL9538APW	Panel E - OM13495	TSSOP16	SOT403-1
PCAL9539AHF	#N/A	HWQFN24	SOT994-1
PCAL9539APW	Panel E - OM13495	TSSOP24	SOT355-1
PCAL9554BBS	Panel D - OM13494	HVQFN16	SOT758-1



Panel Number	Panel Number	Package Name	Package SOT Number
PCAL9554BPW	Panel E - OM13495	TSSOP16	SOT403-1
PCAL9554CBS	Panel D - OM13494	HVQFN16	SOT758-1
PCAL9554CPW	Panel E - OM13495	TSSOP16	SOT403-1
PCAL9555AHF	#N/A	HWQFN24	SOT994-1
PCAL9555APW	Panel E - OM13495	TSSOP24	SOT355-1
PCF85102C-2T	Panel A - OM13491	SO8	SOT96-1
PCF85103C-2T	Panel A - OM13491	SO8	SOT96-1
PCF8570T	#N/A	SO8	SOT176-1
PCF8574AT	#N/A	SO16	SOT162-1
PCF8574ATS	#N/A	SSOP20	SOT266-1
PCF8574T	#N/A	SO16	SOT162-1
PCF8574TS	#N/A	SSOP20	SOT266-1
PCF8575CTS	#N/A	SSOP24	SOT340-1
PCF8575TS	#N/A	SSOP24	SOT340-1
PCF8582C-2T	Panel A - OM13491	SO8	SOT96-1
PCF8584T	#N/A	SO20	SOT163-1
PCF8594C-2T	Panel A - OM13491	SO8	SOT96-1
PCF8598C-2T	#N/A	SO8	SOT176-1
PCT1075D	Panel A - OM13491	SO8	SOT96-1
PCT1075DP	Panel A - OM13491	TSSOP8	SOT505-1
PCT1075TP	Panel A - OM13491	HWSON8	SOT1069-2
PCT2075D	Panel A - OM13491	SO8	SOT96-1
PCT2075DP	Panel A - OM13491	TSSOP8	SOT505-1
PCT2075GV	Panel B - OM13492	TSOP6	SOT1353-1
PCT2075TP	Panel A - OM13491	HWSON8	SOT1069-2
PCU9654PW	Panel E - OM13495	TSSOP24	SOT355-1
PCU9655PW	Panel F - OM13496	TSSOP28	SOT361-1
PCU9655PW1	Panel F - OM13496	TSSOP28	SOT361-1
SA56004AD	Panel A - OM13491	SO8	SOT96-1
SA56004ADP	Panel A - OM13491	TSSOP8	SOT505-1
SA56004ATK	Panel A - OM13491	HVSON8	SOT782-1
SA56004BD	Panel A - OM13491	SO8	SOT96-1
SA56004BDP	Panel A - OM13491	TSSOP8	SOT505-1
SA56004CD	Panel A - OM13491	SO8	SOT96-1
SA56004CDP	Panel A - OM13491	TSSOP8	SOT505-1
SA56004DD	Panel A - OM13491	SO8	SOT96-1

Panel Number	Panel Number	Package Name	Package SOT Number
SA56004DDP	Panel A - OM13491	TSSOP8	SOT505-1
SA56004ED	Panel A - OM13491	SO8	SOT96-1
SA56004EDP	Panel A - OM13491	TSSOP8	SOT505-1
SA56004ETK	Panel A - OM13491	HVSON8	SOT782-1
SA56004FD	Panel A - OM13491	SO8	SOT96-1
SA56004FDP	Panel A - OM13491	TSSOP8	SOT505-1
SA56004FTK	Panel A - OM13491	HVSON8	SOT782-1
SA56004GD	Panel A - OM13491	SO8	SOT96-1
SA56004GDP	Panel A - OM13491	TSSOP8	SOT505-1
SA56004HD	Panel A - OM13491	SO8	SOT96-1
SA56004HDP	Panel A - OM13491	TSSOP8	SOT505-1
SA601DK	#N/A	SSOP20	SOT266-1
SA602AD	Panel A - OM13491	SO8	SOT96-1
SA605D	#N/A	SO20	SOT163-1
SA605DK	#N/A	SSOP20	SOT266-1
SA606D	#N/A	SO20	SOT163-1
SA606DK	#N/A	SSOP20	SOT266-1
SA607DK	#N/A	SSOP20	SOT266-1
SA608DK	#N/A	SSOP20	SOT266-1
SA612AD	Panel A - OM13491	SO8	SOT96-1
SA615D	#N/A	SO20	SOT163-1
SA615DK	#N/A	SSOP20	SOT266-1
SA616BS	Panel D - OM13494	HVQFN20	SOT917-1
SA616DK	#N/A	SSOP20	SOT266-1
SA630D	Panel A - OM13491	SO8	SOT96-1
SA636BS	Panel D - OM13494	HVQFN20	SOT917-1
SA636DK	#N/A	SSOP20	SOT266-1
SA639DH	Panel E - OM13495	TSSOP24	SOT355-1
SE95D	Panel A - OM13491	SO8	SOT96-1
SE95DP	Panel A - OM13491	TSSOP8	SOT505-1
SE97BPW	Panel B - OM13492	TSSOP8	SOT530-1
SE97BTP	Panel A - OM13491	HWSON8	SOT1069-2
SE98APW	Panel B - OM13492	TSSOP8	SOT530-1
SE98ATP	Panel A - OM13491	HWSON8	SOT1069-2
TDA5051AT	#N/A	SO16	SOT162-1

[1] None of the panels support SOT1172-2 footprint, nor SOT1172-3. Devices with these two footprints can use Panel G SOT1172-1 footprint only if center pad is not soldered on.

## 7 Legal information

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## Tables

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