

## **Compare**

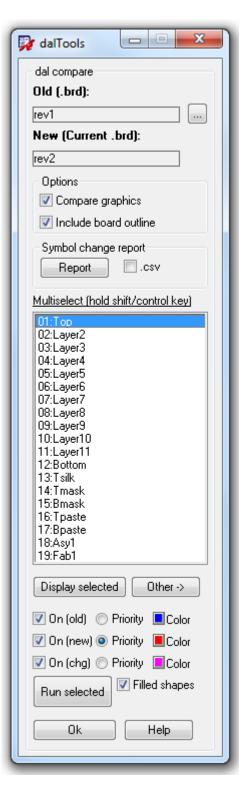
Compares and displays ALL graphic and symbol changes between two boards. This application quickly and easily displays differences between the two board revisions based on artwork film layers. In addition, all refdes, xy, rotation, part number, etc. changes are displayed in a report file.

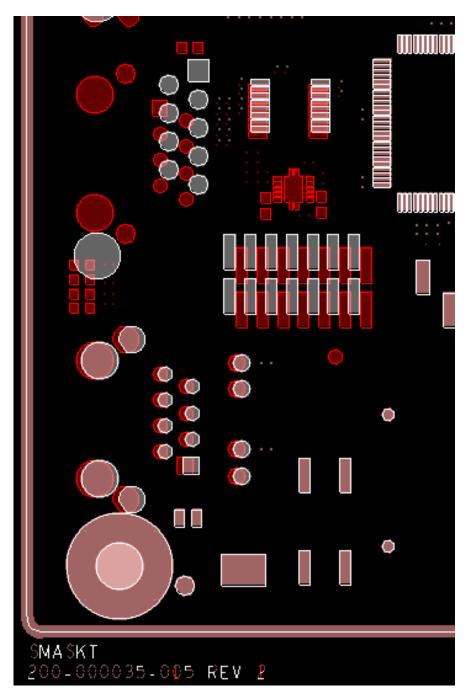
This is very useful to determine exactly what changed between board revisions or to track PCB design progress.

One example would be to quickly see if anything changed on the paste mask layers in order to determine if a new stencil order is required. Another is testpoint changes for ICT fixtures.

#### Features:

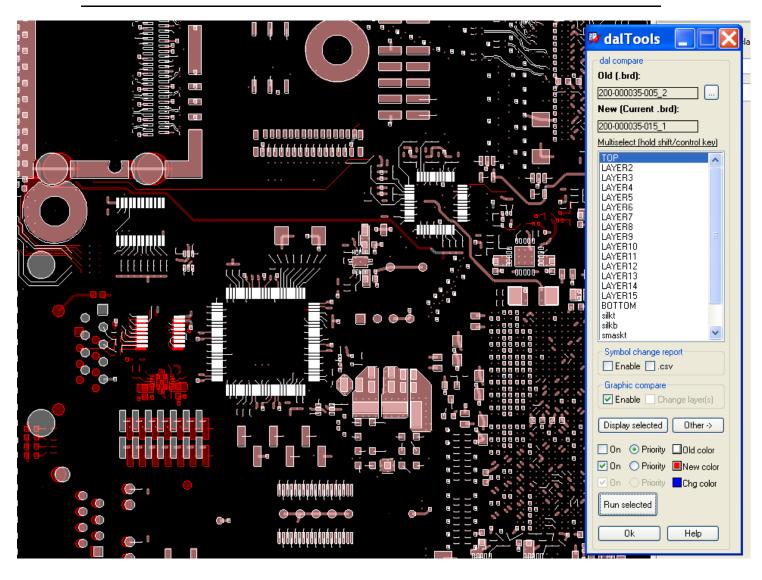
- □ Visually displays all symbol and graphic changes between two boards. Changes are very distinguishable and noticeable just by panning around the screen.
- Easy to use. Only two clicks are required to compare all film control layers.
- Quick display and layer priority controls built in.
- ☐ Run only selected layers or all layers.
- □ Also runs in the ALLEGRO\_VIEWER\_PLUS editor to avoid tying up an Allegro license.





Soldermask layer changes stand out

## Example 2



The dark red items denote changes to the top layer

# Symbol report

#### ■ Report Window

File Close Help

HalTools - Compare report Date: Jan 12 10:38:41 2012 200-000035-005\_2.brd [01d] 200-000035-015\_1.brd [New]

Summary: 29 Added symbols 4 Deleted symbols 83 Changed symbols

# Brd	Type	Refdes	XY(mils)	Side	Rot	Symtype	Part number	Device type
3 [New] 4 [New] 5 [New] 6 [New] 7 [New] 8 [New] 10 [New] 11 [New] 12 [New] 13 [New] 14 [New] 15 [New] 16 [New] 17 [New] 19 [New] 20 [New] 21 [New] 22 [New] 23 [New] 24 [New] 26 [New] 27 [New] 28 [New] 28 [New] 28 [New]	Added:	C139_MPB C140_MPB C141_MPB C142_MPB M10 Q2 R144_MPB R145_MPB R145_MPB R147_MPB R149_MPB R149_MPB R149_MPB R150_MPB R106 R175 R203 R204 R207 R47_MPB R48_MPB R70_SW R71_SW R71_SW R71_SW R71_SW RFE_MPB TF10_MPB	(820.00,800.00) (770.00,1380.00) (705.00,1340.00) (565.00,1485.00) (566.00,1375.00) (155.00,1750.00) (-105.00,2100.00) (2985.00,2445.00) (3135.00,2445.00) (3135.00,2465.00) (775.00,1480.00) (525.00,1485.00) (485.00,1485.00) (485.00,1485.00) (485.00,1485.00) (490.00,2915.00) (490.00,2915.00) (2906.00,2418.00) (3060.00,2485.00) (3060.00,2485.00) (3195.00,2465.00) (3195.00,2465.00) (3195.00,2465.00) (3195.00,2465.00) (310.00,2265.00) (310.00,2265.00) (3755.00,4000.00) (3755.00,4000.00) (3755.00,4000.00) (3755.00,4000.00) (3712.00,3648.00) (-140.00,1149.00) (810.00,1475.00) (865.00,1440.00)	ТТТТТТВТТТТТТТТТВТТВВТВТВВТТТТ	90.00 270.00 270.00 270.00 270.00 0.00 0.		402-000010-011 402-000010-026 402-000010-006 402-000010-011 410-000140-001 320-000062-001 405-000010-001 405-000010-001 400-000010-010 400-000010-010 400-000010-010 400-000010-020 400-000010-010 400-000010-010 400-000010-010 400-000010-010 400-000010-010 400-000010-010 400-000010-010 400-000010-010 400-000010-010 400-000010-010 400-000010-010 400-000010-010 400-000010-010 400-000010-010 400-000010-010 400-000010-010 400-000010-010 400-000010-010 400-000010-074 400-000010-074 404-000001-003 450-000081-001	BYPASS_CAP_NPOL_S BYPASS_CAP_NPOL_S BYPASS_CAP_NPOL_S BYPASS_CAP_NPOL_S BYPASS_CAP_NPOL_S BYPASS_CAP_NPOL_S IC MECHANICAL IC IC IC RESISTOR_SMT-0402
2 [01d] 3 [01d]	Deleted: Deleted: Deleted: Deleted:	R164 R165	(2720.00,2500.00) (4895.00,3290.00) (4855.00,3290.00) (301.61,1889.37)	T T T	90.00 90.00	SM_0402C SM_0402R SM_0402R DB9_RA	402-000010-001 400-000014-011 400-000014-011 410-000120-001	BYPASS_CAP_NPOL_S RESISTOR_SMT-0402 RESISTOR_SMT-0402 IC
	Changed : Changed :		(5045.00,1000.00) (5045.00,1000.00)	B B		SM_0603C SM_0603C	402-000050-014 402-000050-016	TIMING_CAP_NPOL_S TIMING_CAP_NPOL_S
	Changed: Changed:		(4580.00,3490.00) (4530.00,3495.00)	T T		SM_0402C SM_0402C	402-000010-005 402-000010-005	BYPASS_CAP_NPOL_S BYPASS_CAP_NPOL_S



### Help (cont)

