

HEX 4000 to 4FFF

## OptiMASK Extension

All GDSII records  
still valid.  
Each CMD  
A Unique HEX#;  
Each OBJ  
A Unique ID;

0606 STRNAME

(REfERENCE)

4000 HIERARCHY

4100 CELL 4101 FRAME / OUTLINE

4A00 PARAREF

4B00 MATREF / 4B01 MREF / 4B02 NREF

4C00 FONT / 4C01 NOTE  
(Comment, Annotation, Ruler, Marker etc.)

4D00 RECTangle (with Wire Width)

4200 PORT / 4201 POS / 4202 ANG / 4203 CNT / 4204 JCT

4300 CUSTOM

4401 ORG / 4402 RAD / 4403 LENGTH / 4404 PERI / 4405 AREA

4800 POLYGON

4900 LINE (AutoCAD: PLINE; ICED: WIRE)

[ 4945 LINE at 45/135/225/315deg ]

[ 4990 LINE at 90deg/270deg ]

4901 SKETCH (AutoCAD)

4902 MLINE (AutoCAD: MULTILINE)

*oD02 LAYER  
oE02 DATATYPE  
1003 XY*

(ELEMeNt)

4501 ARC / 4511 RIM / 4521 NEGRIM

4502 CIRCLE / 4512 RING / 4522 NEGRING

4503 ELLIPSE / 4513 ELIPRING / 4523 NEGELIPRING

4504 S-Bend

4505 SPIRAL / 4526 NEGSPIRAL

4506 PARABOLA / 4516 PRBLRING

4507 HYPERBOLA / 4517 HYPBRING

45F0 CURVEPATH

4500 CURVE

4601 MARC / 4611 MRIM

4602 MCIRCLE / 4612 MRING

4600 MCURVE

4700 RULER (Measure only, or Persistent) / 4701 RULERANG

4E00/4F00 RESERVED

(1) Description &  
(2) Coordinate  
(optional)