

SEC Tool Name Definition

1. Tool Name

max. 32 digits

Short Material Number	Separator	Layer Name
The first 11 digits of Material Number	.	CAM Layer Name
11 digits	1 digit	Max. 20 digits

Note: All tool names must be in lowercase. (注意:所有的工具名必须小写)

2. Layer Name

Imaging Layer Naming	Layer Type (alpha)	Layer Number (alpha-2)
	XXX	XX
	3 digits	2 digits

Solder Mask Layer Naming	Layer Type (alpha)	Layer Number (alpha-2)	Separator	# of soldermask prints (alpha - start with a)
	XXX	XX	-	X
	3 digits	2 digits	1 digit	1 digit

CNC Drilling Layer Naming	Layer Type (alpha)	Start Layer	End Layer	Separator	# of drill of programs (alpha-start with a)
	XXX	XX	XX	-	X
	3 digits	2 digits	2 digits	1 digit	1 digit

Depth Drill Layer Naming - scenario1	Layer Type (alpha)	Start Layer	End Layer	Separator	# of drill of programs (alpha-start with a)
	XXX	XX	XX	-	X
	3 digits	2 digits	2 digits	1 digit	1 digit

Depth Drill Layer Naming - scenario 2	Layer Type (alpha)	Start Layer	End Layer	Separator	Drill Start layer (numeric - same number indicates drill data to be placed in one prog)
	XXX	XX	XX	-	XX
	3 digits	2 digits	2 digits	1 digit	2 digits

Laser Drill Layer Naming - scenario1	Layer Type (alpha)	Start Layer	End Layer	Separator	# of drill of programs (alpha-start with a)
	XXX	XX	XX	-	X
	3 digits	2 digits	2 digits	1 digit	1 digit

Laser Drill Layer Naming - scenario 2	Layer Type (alpha)	Start Layer	End Layer	Separator	Drill Start layer (numeric - same number indicates drill data to be placed in one prog)
	XXX	XX	XX	-	XX
	3 digits	2 digits	2 digits	1 digit	2 digits

Author:

 if there are several solder mask in one side, the first should be a, the second one should be b...
if only once, no need to add this alpha

 同一面有多次防焊的时候,第一次为a,第二次为b...
如果只有一次则不需要写

Author:

 if there are several CNC layers with the same start/end layer, the first one should be a, the second one should be b...
if only one, no need to add this alpha

 有多个Start/End Layer相同的锣带,第一个为a,第二个为b...
如果只有一个则不需要写

Author:

 if there are several drill layers have the same start/end layer, the first one should be a, the second one should be b...
if only one, no need to add this alpha

 有多个Start/End Layer相同的钻带,第一个为a,第二个为b...
如果只有一个则不需要写

Author:

 if there are several drill layers with the same start layer but different end layers, the start layer number should be here, and all these drill data should be placed in one program when we output
if only one, no need to add this alpha

 不同的钻带,起始层相同,目标层不同,将起始的层别带为后缀,输出钻孔时这些钻带需合并在一个程式中
如果只有一个则不需要写

3. Layer Type

Layer Type (alpha)	Description	Type	Remark
aum	gold-mask foto		
aup	gold-mask screen		
agm	silver-mask foto		
agp	silver-mask screen		
pdr	pre-drilling		
cdr	cnc-drilling		
ldr	laser-drilling		
xdr	xray-drilling		钻孔pin
ddr	depth-drilling		
bdr	back-drilling		
mtd	pinning for milling		
cnm	milling		
dmc	depth milling with contact		
dmm	depth milling with mapping		
mtb	milling paper backing board		成型纸垫板
sco	scoring layer		V-CUT
cpo	copper-protect outer layer	foto	
cfo	copper-free outer layer	foto	
col	copper outer layer	foto	
cmo	conformal mask outer layer	foto	
cpi	copper-protect inner layer	foto	
cfi	copper-free inner layer	foto	
cil	copper inner layer	foto	
cmi	conformal mask inner layer	foto	
bpf	button plate photo	foto	(for button plate jobs)
lpp	legend print	silkscreen	including ink jet
vmp	via-cover-print	silkscreen	油墨塞孔,防焊前塞孔
vpp	plugging layer	silkscreen	树脂塞孔
fmp	flex-soldermask	silkscreen	
smf	soldermask foto	foto	防焊曝光

smp	soldermask print	silkscreen	挡点
alp	Aluminum sheet print		铝片塞孔
lmp	line mask	silkscreen	(for thick Cu design to fill gap between traces)
vps	via plugging subsequent	silkscreen	油墨塞孔,防焊后塞孔
sfs	soldermask foto subsequent	foto	防焊后塞孔的二次防焊曝光
vpg	via plugging gap board		塞孔导气垫板(base board)
pmp	peelable cover print	silkscreen	
cbp	carbon	silkscreen	

4. Example

eg. material number 200001P-A01-00-2

Layer	Layer Name	Tool Name
Solder mask flex	smf01-a	200001p-a01.smf01-a
Solder mask	smf01-b	200001p-a01.smf01-b
Solder mask	smf01	200001p-a01.smf01
Outer Top	col01	200001p-a01.col01
Outer Top Subassembly	cpo01	200001p-a01.cpo01
	cil02	200001p-a01.cil02
	cil03	200001p-a01.cil03
	cil04	200001p-a01.cil04
	cil05	200001p-a01.cil05
	cil06	200001p-a01.cil06
	cil07	200001p-a01.cil07
	cil08	200001p-a01.cil08
	col08	200001p-a01.col08
Solder mask	smf08-a	200001p-a01.smf08-a
Solder mask via filling	vmp08-a	200001p-a01.vmp08-a
Solder mask	smf08-b	200001p-a01.smf08-b
drill	cdr0108	200001p-a01.cdr0108
drill (pth & npth)	cdr0108-a	200001p-a01.cdr0108-a
drill (pth & npth)	cdr0108-b	200001p-a01.cdr0108-b
depth drill	ddr0102	200001p-a01.ddr0102
depth drill 01-02	ddr0102-a	200001p-a01.ddr0102-a
depth drill 01-02	ddr0102-b	200001p-a01.ddr0102-b
depth drill 0102	ddr0102-01	200001p-a01.ddr0102-01
depth drill 0103	ddr0103-01	200001p-a01.ddr0103-01
depth drill 0102	ddr0102-01	200001p-a01.ddr0102-01
depth drill 0103	ddr0103-01	200001p-a01.ddr0103-01
laser	ldr0102-a	200001p-a01.ldr0102-a
laser	ldr0102-b	200001p-a01.ldr0102-b
laser stacked	ldr0102-01	200001p-a01.ldr0102-01
laser stacked	ldr0103-01	200001p-a01.ldr0103-01