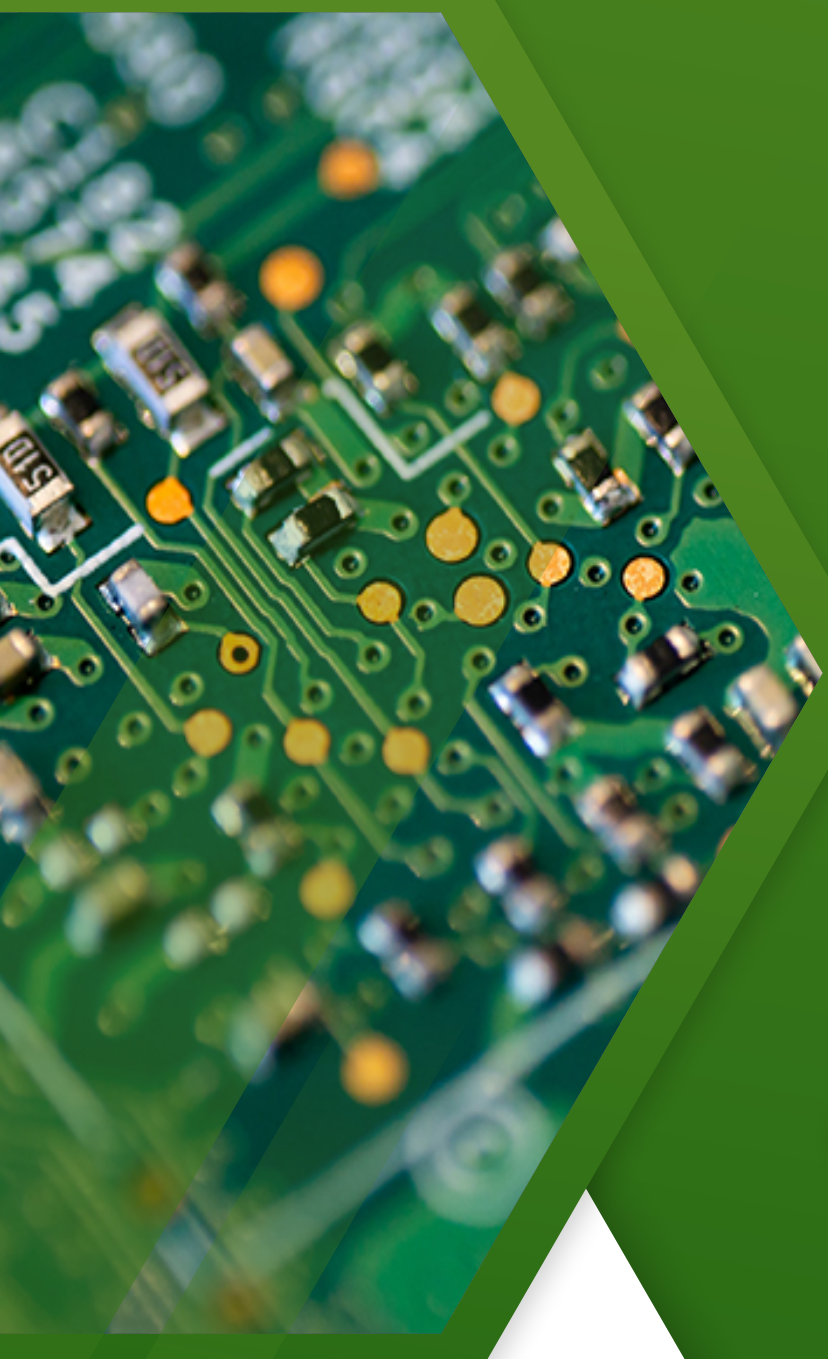
IKT
ELECTRONICS
MANUFACTURING SERVICES

# ASSEMBLY PRODUCTS PORTFOLIO



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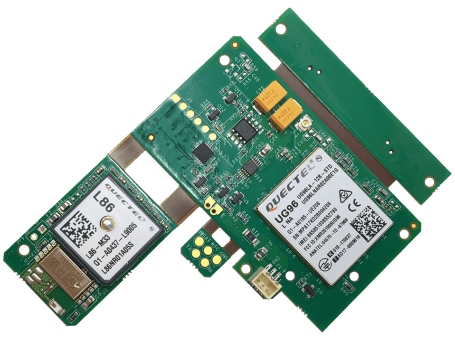
# PRODUCT APPLICATION: CARGO TRACKING

## FRONT VIEW



## MAIN CHARACTERISTICS

**PCB**

PCB TYPE **RIGID-FLEXIBLE PCB**

NUMBER OF LAYERS **6**

MATERIAL **FR4 (TG170)+POLYIMIDE**

FUNCTIONAL RELIABILITY CLASS

ACCORDING TO IPC-A-600H&IPC-6012B **2**

CIRCUIT SIZE (X,Y), mm **66x91.5**

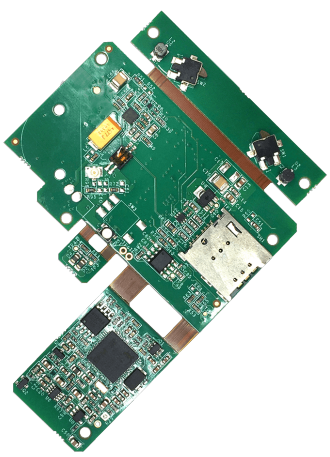
PANEL SIZE (X,Y) mm **238±0,15x158±0,15**

FINISHED THICKNESS **1.2±10%**

CIRCUITS PER PANEL/

DIFFERENT PCB TYPES **6/1**

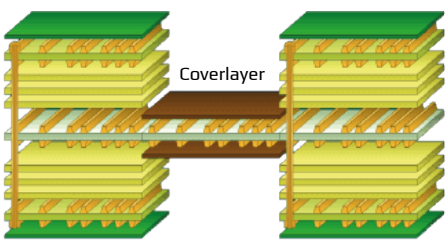
## BACK VIEW



## PCB STACK-UP

1
- Core FR4 Core
2
- PP 108
- PP 106
- PP 106

3
- FC R-775 22 EV
4
- PP 106
- PP 106
- PP 108
5
- Core FR4 Core
6
- SM Liquid Photoimageable Mask




299.99
74.930
50.040
50.040

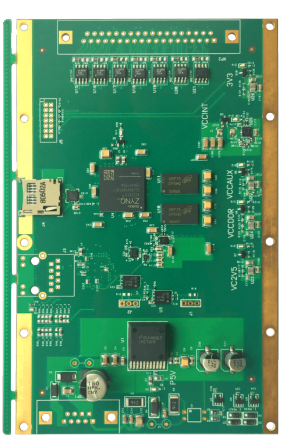
50.800

50.040
50.040
74.930

299.99
25.400

# PRODUCT APPLICATION: TELECOMMUNICATIONS

## FRONT VIEW



## MAIN CHARACTERISTICS

**PCB**

PCB TYPE **RIGID PCB**

NUMBER OF LAYERS**14**

MATERIAL **FR4 IT180A**

FUNCTIONAL RELIABILITY CLASS

ACCORDING TO IPC-A-600H&IPC-6012B **2**

CIRCUIT SIZE (X,Y), mm **160x100**

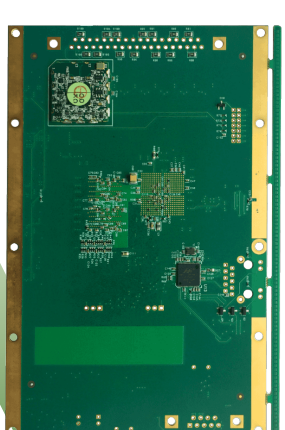
PANEL SIZE (X,Y) mm **160±0,15x100±0,15**

FINISHED THICKNESS **1,6±10%**

CIRCUITS PER PANEL/

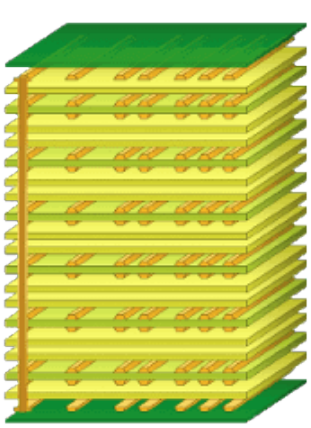
DIFFERENT PCB TYPES **1/1**

## BACK VIEW



## PCB STACK-UP

- SM Liquid Photoimageable Mask
1 Foil Copper Foil
- PP 3313
2
- Core FR4 Core
3
- PP 106
- PP 106
4
- Core FR4 Core
5
- PP 106
- PP 106
6
- Core FR4 Core
7
- PP 106
- PP 106
8
- Core FR4 Core
9
- PP 106
- PP 106
10
- Core FR4 Core
11
- PP 106
- PP 106
12
- Core FR4 Core
13
- PP 3313
4 Foil Copper Foil
- SM Liquid Photoimageable Mask



25.400
85.806
100.000
40.206
40.206
100.000
33.633
33.633
100.000
35.454
29.568
100.000
33.633
33.633
100.000
40.206
40.206
100.000
87.806
25.400

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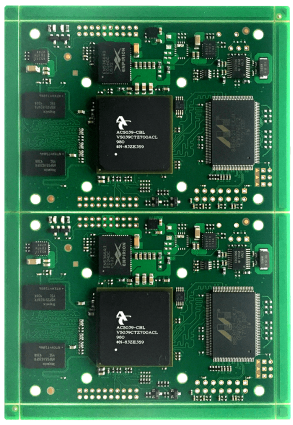
# PRODUCT APPLICATION: VOIP EQUIPMENT

## FRONT VIEW



## MAIN CHARACTERISTICS

**PCB**

PCB TYPE **RIGID PCB**

NUMBER OF LAYERS **6**

MATERIAL **IT180A**

FUNCTIONAL RELIABILITY CLASS

ACCORDING TO IPC-A-600H&IPC-6012B **2**

CIRCUIT SIZE (X,Y), mm **81,28x59,18**

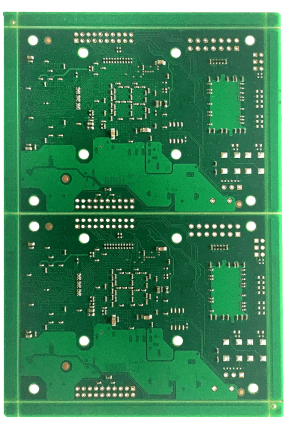
PANEL SIZE (X,Y) mm **91,28±0,15x128,35±0,15**

FINISHED THICKNESS **1,74±10%**

CIRCUITS PER PANEL/

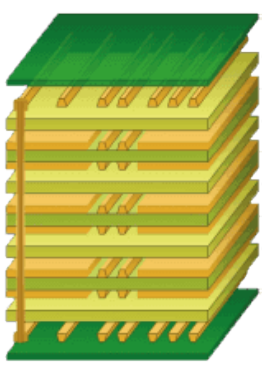
DIFFERENT PCB TYPES **2/1**

## BACK VIEW



## PCB STACK-UP

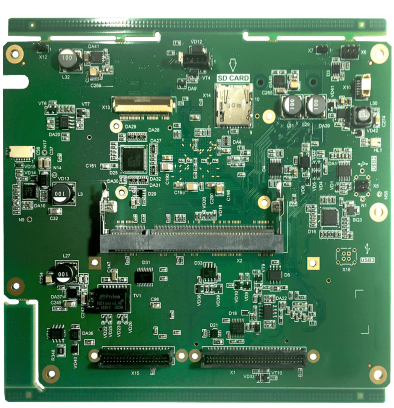
- SM Liquid Photoimageable Mask
1 Foil Copper Foil
- PP 2115H
2
- Core FR4 Core
3
- PP 2115H
4
- Core FR4 Core
5
- PP 2115H
6
- Core FR4 Core
7
- PP 2115H
8 Foil Copper Foil
- SM Liquid Photoimageable Mask



25.400
140.000
150.000
140.000
710.000
140.000
150.000
140.000
25.400

# PRODUCT APPLICATION: TELECOMMUNICATIONS

## FRONT VIEW



## MAIN CHARACTERISTICS

**PCB**

PCB TYPE **RIGID PCB**

NUMBER OF LAYERS **8**

MATERIAL **FR4 HiTg**

FUNCTIONAL RELIABILITY CLASS

ACCORDING TO IPC-A-600H&IPC-6012B **3**

CIRCUIT SIZE (X,Y), mm **155 X 135**

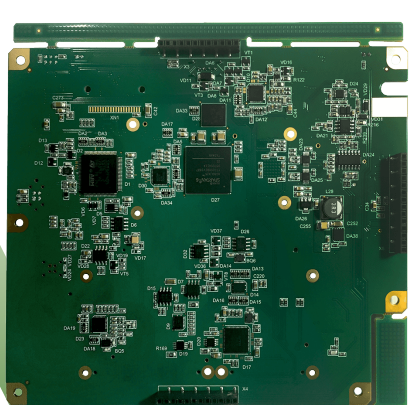
PANEL SIZE (X,Y) mm **155±0,15 X 147±0,15**

FINISHED THICKNESS **2,0±10%**

CIRCUITS PER PANEL/

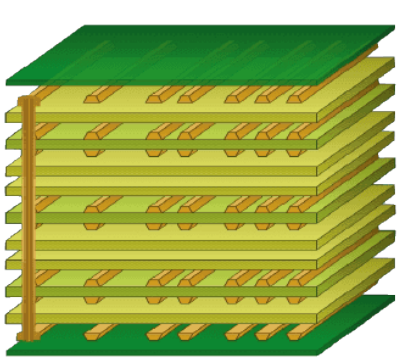
DIFFERENT PCB TYPES **1/1**

## BACK VIEW



## PCB STACK-UP

- SM Liquid Photoimageable Mask
1 Foil Copper Foil
- PP 3313H
2
- Core FR4 Core
3
- PP 7628
- PP 216H
4
- Core FR4 Core
5
- PP216H
- PP 7628
6
- Core FR Core
7
- PP 3313H
8 Foil Copper Foil
- SM Liquid Photoimageable Mask



25.400
94.084
210.000
180.663
130.847
599.999
130.847
180.663
210.000
94.084
25.400

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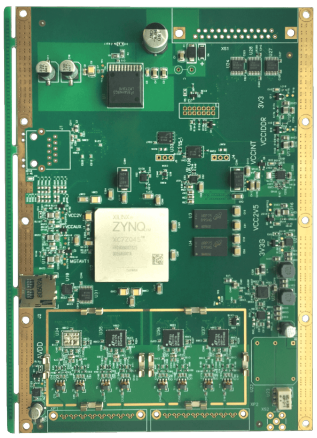
# PRODUCT APPLICATION: TELECOMMUNICATIONS

## FRONT VIEW



## MAIN CHARACTERISTICS

**PCB**

PCB TYPE **RIGID PCB**

NUMBER OF LAYERS **14**

MATERIAL **FR4 IT180A**

FUNCTIONAL RELIABILITY CLASS

ACCORDING TO IPC-A-600H&IPC-6012B **2**

CIRCUIT SIZE (X,Y), mm **180x125**

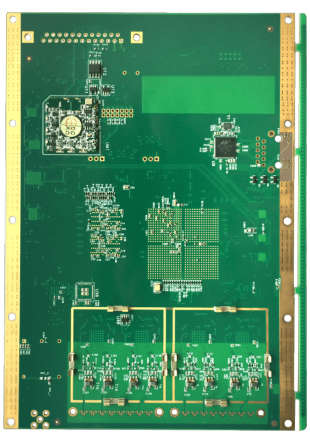
PANEL SIZE (X,Y) mm **180±0,15x130±0,15**

FINISHED THICKNESS **1,6±10%**

CIRCUITS PER PANEL/

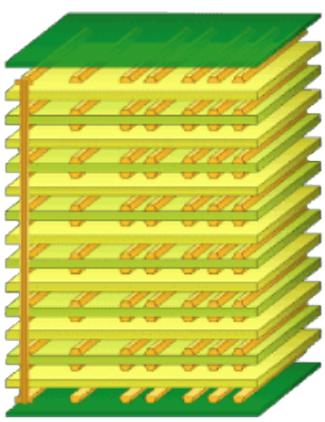
DIFFERENT PCB TYPES **1/1**

## BACK VIEW



## PCB STACK-UP

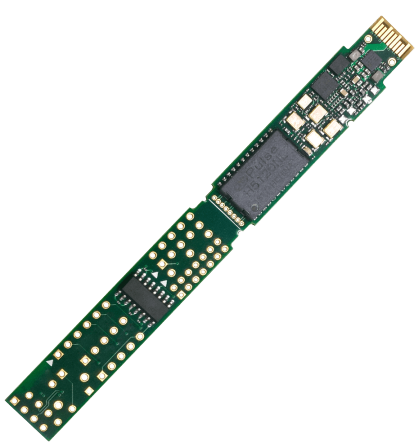
- SM Liquid Photoimageable Mask
1 Foil Copper Foil
- PP 1000
2
- Core FR4 Core
3
- PP 2116
4
- Core FR4 Core
5
- PP 2116
6
- Core FR4 Core
7
- PP 2116
8
- Core FR4 Core
9
- PP 2116
10
- Core FR4 Core
11
- PP 2116
12
- Core FR4 Core
13
- PP 1080
14 Foil Copper Foil
- SM Liquid Photoimageable Mask



25.400
66.376
100.000
95.611
100.00
82.467
100.000
82.467
100.000
96.322
100.000
82.467
100.000
95.611
100.000
66.376
25.400

# PRODUCT APPLICATION: VOIP EQUIPMENT

## FRONT VIEW



## MAIN CHARACTERISTICS

**PCB**

PCB TYPE **RIGID PCB**

NUMBER OF LAYERS **8**

MATERIAL **IT 180A**

FUNCTIONAL RELIABILITY CLASS

ACCORDING TO IPC-A-600H&IPC-6012B **2**

CIRCUIT SIZE (X,Y), mm **101,3x11,82**

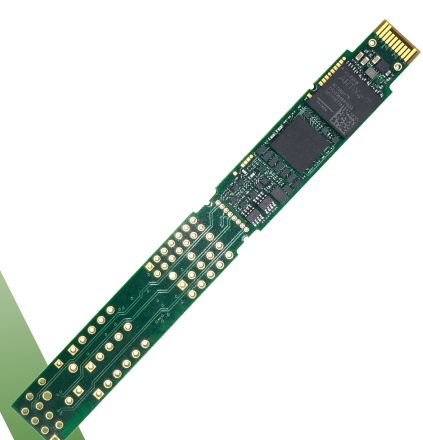
PANEL SIZE (X,Y) mm **101,3±0,15x82,88±0,15**

FINISHED THICKNESS **1±10%**

CIRCUITS PER PANEL/

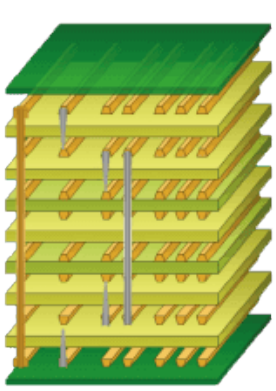
DIFFERENT PCB TYPES **4/1**

## BACK VIEW



## PCB STACK-UP

- SM Liquid Photoimageable Mask
1 Foil Copper Foil
- PP 108
2 Foil Copper Foil
- PP 108
3
- Core FR4 Core
4
- PP 108
5
- Core FR4 Core
6
- PP 108
6
- Core FR Core
8 Foil Copper Foil
- SM Liquid Photoimageable Mask



74.930
74.930
210.000
74.930
210.000
74.930
74.930
25.400

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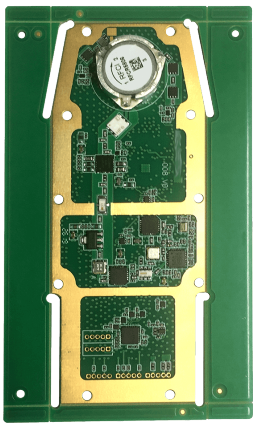
# PRODUCT APPLICATION: TELECOMMUNICATIONS

## FRONT VIEW



## MAIN CHARACTERISTICS

**PCB**

PCB TYPE **RIGID PCB**

NUMBER OF LAYERS **8**

MATERIAL **FR4 HiTg**

FUNCTIONAL RELIABILITY CLASS

ACCORDING TO IPC-A-600H&IPC-6012B **3**

CIRCUIT SIZE (X,Y), mm **95x38**

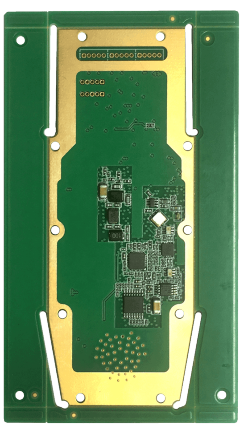
PANEL SIZE (X,Y) mm **103±0,15x60±0,15**

FINISHED THICKNESS **1,50±10%**

CIRCUITS PER PANEL/

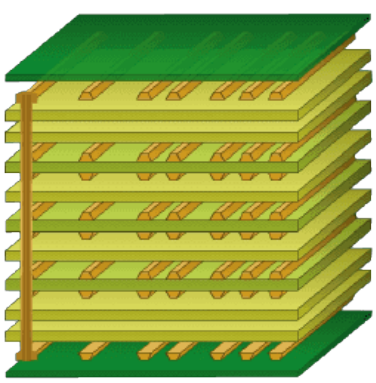
DIFFERENT PCB TYPES **1/1**

## BACK VIEW



## PCB STACK-UP

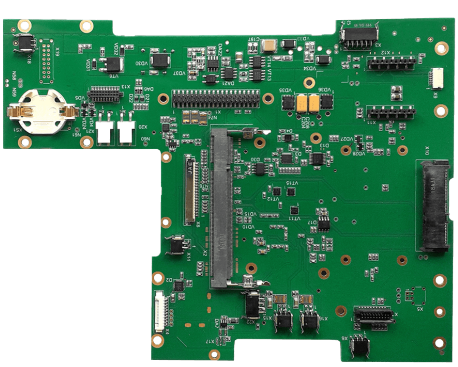
- SM Liquid Photoimageable Mask
1 Foil Copper Foil
- PP 7628H
- PP 7628H
2
- Core FR4 Core
3
- PP 2116
4
- Core FR4 Core
5
- PP 2116
6
- Core FR Core
7
- PP 7628H
- PP 7628H
8 Foil Copper Foil
- SM Liquid Photoimageable Mask



25.400
204.552
204.552
100.000
95.511
100.000
95.511
100.000
204.552
204.552
25.400

# PRODUCT APPLICATION: GPS TRACKING

## FRONT VIEW



## MAIN CHARACTERISTICS

**PCB**

PCB TYPE **RIGID PCB**

NUMBER OF LAYERS **8**

MATERIAL **FR4 HiTg**

FUNCTIONAL RELIABILITY CLASS

ACCORDING TO IPC-A-600H&IPC-6012B **3**

CIRCUIT SIZE (X,Y), mm **204±0,15x160±0,15**

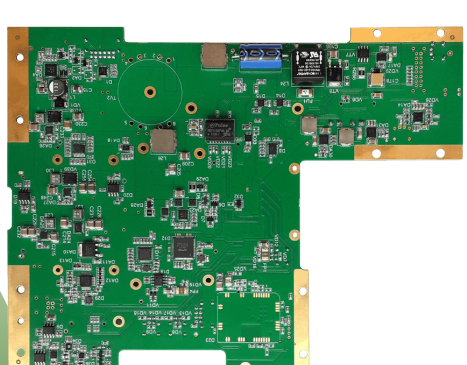
PANEL SIZE (X,Y) mm **204±0,15x160±0,15**

FINISHED THICKNESS **2±10%**

CIRCUITS PER PANEL/

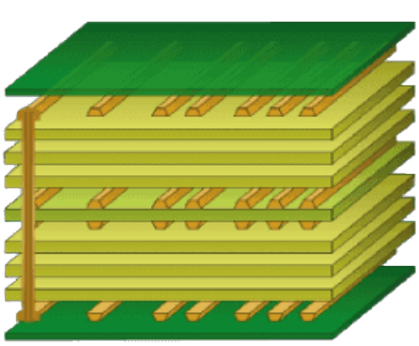
DIFFERENT PCB TYPES **1/1**

## BACK VIEW



## PCB STACK-UP

- SM Liquid Photoimageable Mask
1 Foil Copper Foil
- PP 2116
- PP 1080
- PP 1080
2
- Core FR4 Core
3
- PP 1080
- PP 1080
- PP 2116
4 Foil Copper Foil
- SM Liquid Photoimageable Mask



25.400
113.029
78.119
78.119
800.100
78.119
78.119
113.029
25.400

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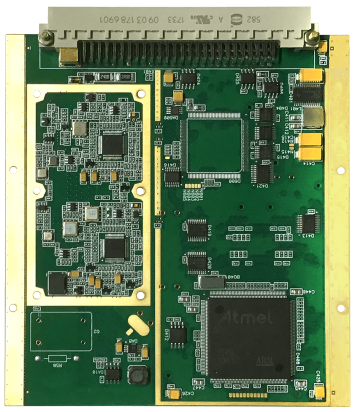
# PRODUCT APPLICATION: TELECOMMUNICATIONS

## FRONT VIEW



## MAIN CHARACTERISTICS

**PCB**

PCB TYPE **RIGID PCB**

NUMBER OF LAYERS **12**

MATERIAL **FR4 IT180A**

FUNCTIONAL RELIABILITY CLASS

ACCORDING TO IPC-A-600H&IPC-6012B **3**

CIRCUIT SIZE (X,Y), mm **118±0,15x130±0,15**

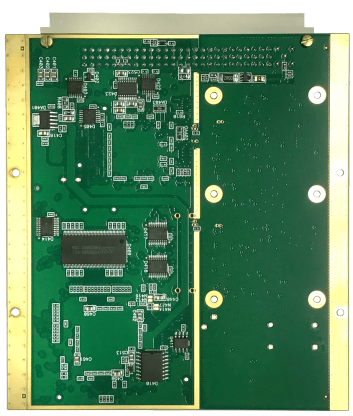
PANEL SIZE (X,Y) mm **118±0,15x130±0,15**

FINISHED THICKNESS **2,00±10%**

CIRCUITS PER PANEL/

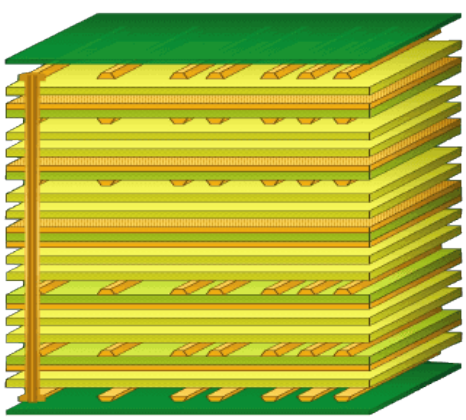
DIFFERENT PCB TYPES **1/1**

## BACK VIEW



## PCB STACK-UP

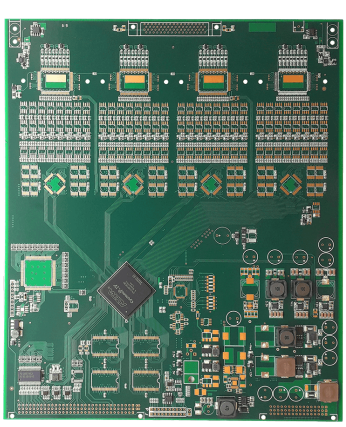
- SM Liquid Photoimageable Mask
1 Foil Copper Foil
- PP 3313H
2
- Core FR4 Core
3
- PP 1080
- PP 1080
4
- Core FR4 Core
5
- PP 1080
- PP 1080
6
- Core FR4 Core
7
- PP 1080
- PP 1080
8
- Core FR4 Core
9
- PP 1080
- PP 1080
10
- Core FR4 Core
11
- PP 3313H
12 Foil Copper Foil
- SM Liquid Photoimageable Mask



25.400
104.252
100.000
71.450
71.450
100.000
71.450
71.450
509.999
71.450
71.450
100.000
71.450
71.450
100.000
104.252
25.400

# PRODUCT APPLICATION: DIAGNOSTICS

## FRONT VIEW



## MAIN CHARACTERISTICS

**PCB**

PCB TYPE **RIGID PCB**

NUMBER OF LAYERS **10**

MATERIAL **FR4 HiTg**

FUNCTIONAL RELIABILITY CLASS

ACCORDING TO IPC-A-600H&IPC-6012B **2**

CIRCUIT SIZE (X,Y), mm **281.5±0,15x235.00±0,15**

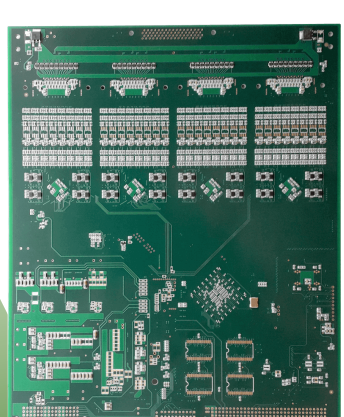
PANEL SIZE (X,Y) mm **281.5±0,15x235.00±0,15**

FINISHED THICKNESS **2±10%**

CIRCUITS PER PANEL/

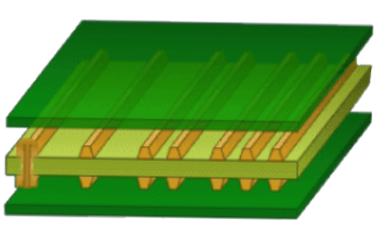
DIFFERENT PCB TYPES **1/1**

## BACK VIEW



## PCB STACK-UP

- SM Liquid Photoimageable Mask
1
- Core FR4 Core
2
- SM Liquid Photoimageable Mask



25.400
710.001
25.400

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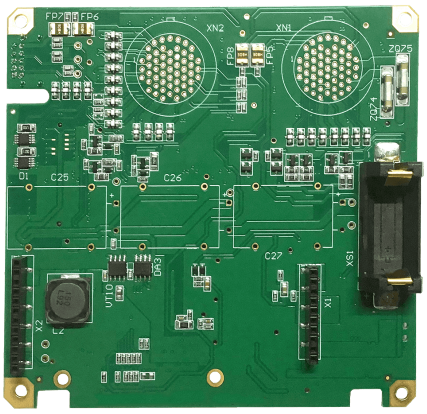
# PRODUCT APPLICATION: TELECOMMUNICATIONS

## FRONT VIEW



## MAIN CHARACTERISTICS

**PCB**

PCB TYPE **RIGID PCB**

NUMBER OF LAYERS **6**

MATERIAL **FR4**

FUNCTIONAL RELIABILITY CLASS

ACCORDING TO IPC-A-600H&IPC-6012B **3**

CIRCUIT SIZE (X,Y), mm **116x110**

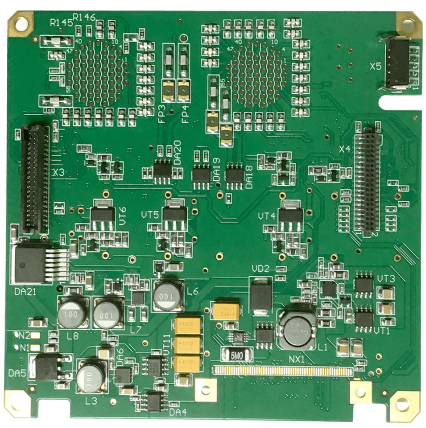
PANEL SIZE (X,Y) mm **116±0,2x122±0,2**

FINISHED THICKNESS **1,60±10%**

CIRCUITS PER PANEL/

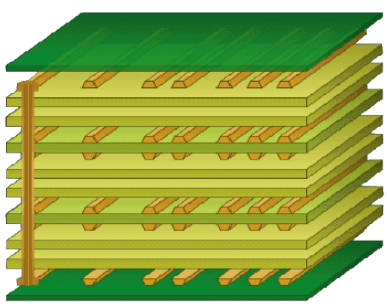
DIFFERENT PCB TYPES **1/1**

## BACK VIEW



## PCB STACK-UP

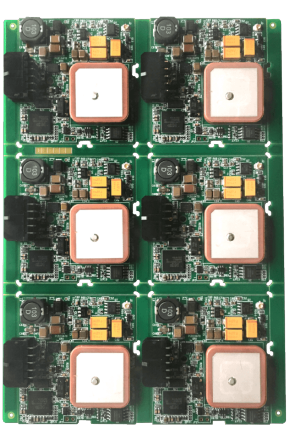
- SM Liquid Photoimageable Mask
1 Foil Copper Foil
- PP 2116H
- PP 7628H
2
- Core FR4 Core
3
- PP 3313
-PP7628H
4
- Core FR4 Core
5
- PP 7628H
- PP 2116H
6 Foil Copper Foil
- SM Liquid Photoimageable Mask



25.400
135.642
203.463
210.00
91.734
195.177
210.000
203.463
135.642
25.400

# PRODUCT APPLICATION: GPS TRACKING

## FRONT VIEW



## MAIN CHARACTERISTICS

**PCB**

PCB TYPE **RIGID PCB**

NUMBER OF LAYERS **6**

MATERIAL **FR4 IT180A**

FUNCTIONAL RELIABILITY CLASS

ACCORDING TO IPC-A-600H&IPC-6012B **2**

CIRCUIT SIZE (X,Y), mm **54±0,15x50±0,15**

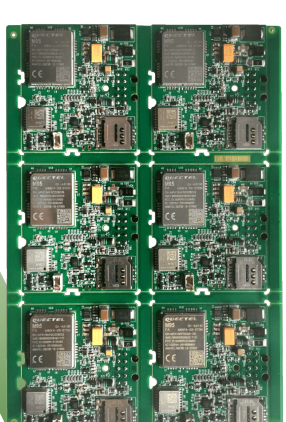
PANEL SIZE (X,Y) mm **415±0,15x275,5±0,15**

FINISHED THICKNESS **1,6±10%**

CIRCUITS PER PANEL/

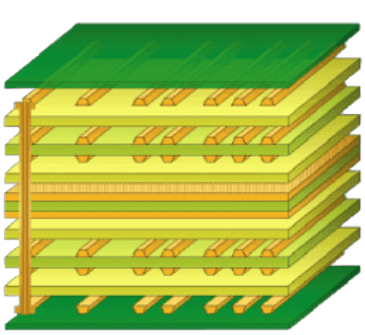
DIFFERENT PCB TYPES **6/1**

## BACK VIEW



## PCB STACK-UP

- SM Liquid Photoimageable Mask
1 Foil Copper Foil
- PP 2116
2
- Core FR4 Core
3
- PP 2116
4
- Core FR4 Core
5
- PP 2116
6
Core FR4 Core
7
- PP 2116
8 Foil Copper Foil
- SM Liquid Photoimageable Mask



93.363
100.000
95.605
710.000
95.608
100.000
93.361
25.400