

# Quasar SMPS

rev.2

## transformer specifications

5mm

20

1

11

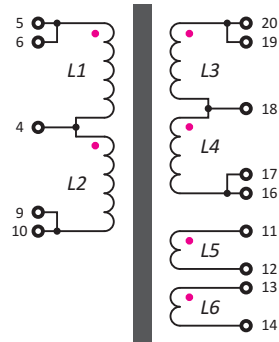
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BOTTOM VIEW

Ferrite core & coilformer = ETD49

Litzwire = 120 x 0,1mm  
or  
CuEm = 1,9 mm

Expected voltages:  
Vout = +/- 50v  
Vaux = +/-15v



1

to pin 4

pin 5,6

1st ½ primary winding (L1)  
single wire starts **from** (pin 5-6)  
**to** (pin 4), counter clockwise, 12  
turns compact.

2

wax paper isolation, 2 turns

3

pin 20,19  
pin 18

to pin 17,16  
to pin 18

20

1

11

10

BOTTOM VIEW

2 secondary windings (L3, L4)  
for Vout  
two wires start **from** (L3 at pin  
20-19 & L4 at pin 18) **to** (L3 at  
pin 18 & L4 at pin 17-16),  
counter clockwise, 9 turns  
compact.

4

wax paper isolation, 2 turns

5

to pin 9,10

pin 4

2nd ½ primary winding (L2)  
single wire starts **from** (pin 4)  
**to** (pin 9-10), counter clockwise,  
12 turns compact.

6

wax paper isolation, 2 turns

7

to pin 12&14

pin 11&13

2 secondary windings (L5-L6)  
for Vaux  
two wires start **from** (L5 at pin 11  
& L6 at pin 13) **to** (L5 at pin 12 &  
L6 at pin 14), counter clockwise,  
4 turns compact.

8

wax paper isolation, 2 turns

external copper-ring,  
thickness 0,2 - 0,3 mm

ring core