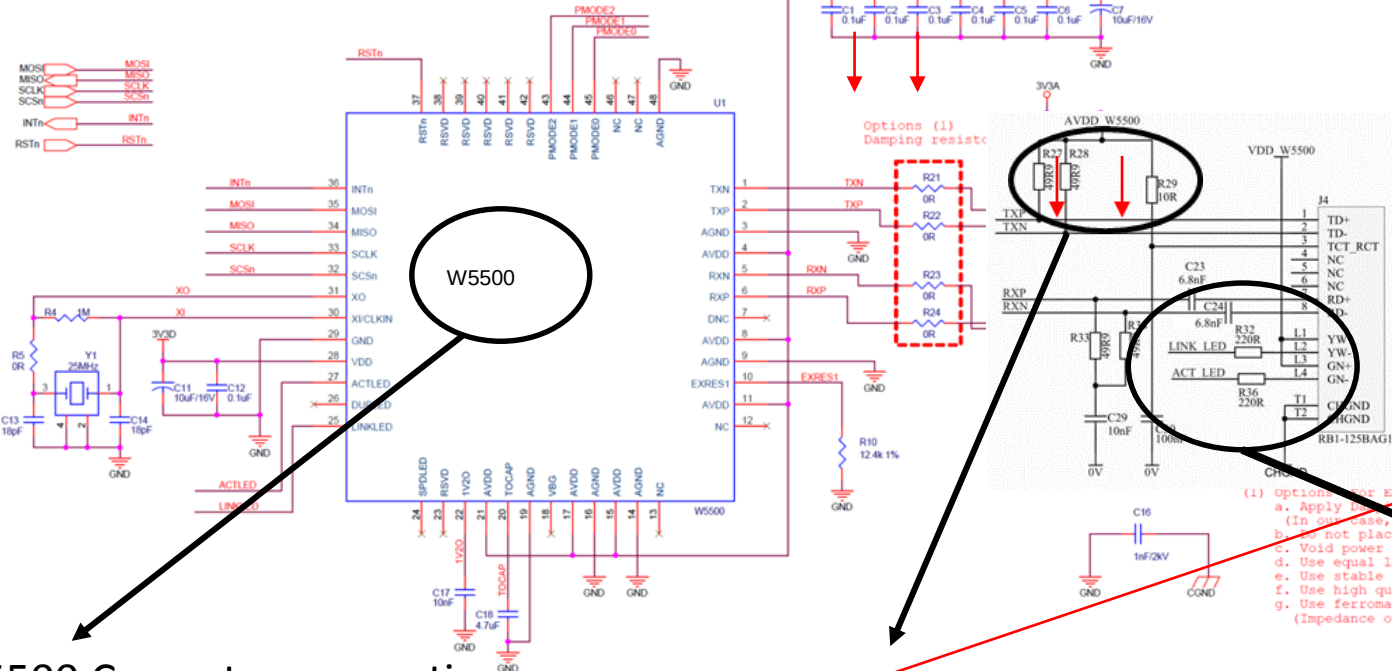


W5500 power consumption measurement (3.3V VDDA and VDD)

U	1	1	100B1 Full-duplex, Auto-negotiation disabled
1	0	0	100BT Half-duplex, Auto-negotiation enabled
1	0	1	Not used
1	1	0	Not used
1	1	1	All capable, Auto-negotiation enabled



1) W5500 Current consumption

(Test Condition: VDD=3.3V, AVDD=3.3V, Ta = 25 °C)

Condition	Min	Typ	Max	Unit
100M Link	-	128	-	mA
10M Link	-	75	-	mA
Un-Link (Auto-negotiation mode)	-	65	-	mA
100M Transmitting	-	132	-	mA
10M Transmitting	-	79	-	mA
Power Down mode	-	13	-	mA

2) TXN/TXP Line current consumption

TXN : $3.3V/49.9\Omega \approx 66mA$

TXP : $3.3V/49.9\Omega \approx 66mA$

In the case of signal = "Low"

<Q1>

Is this correct to measure power consumption between 3V3D and 3V3A?
3V3D current and 3V3A Current = 1) + 2) + 3)?

<100M Transmitting case >

Typical value f

- 1) 132mA
- 2) $66mA \times 2 = 132mA$
- 3) $5mA \times 2 = 10mA$

Total Current consumption

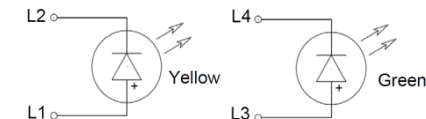
1) + 2) + 3) = 274mA

<Q2 >

Please let me know Max value Of current consumption

3) LINK/ACT LED Drive current

< RB1-125BAG1A connector >



Emitting Color	Ap (nm)	Vf @If=20mA	Ir @Vr=5V
Green	565	1.7 ~ 2.6 V	10μA max.
Yellow	585	1.7 ~ 2.6 V	10μA max.

$V_F = 2.2V$

$I_F = (3.3V - 2.2V) / 220\Omega = 5mA$