

$V_{out} = 0.6(1 + R1/R2)$   
 $3.318 = 0.6 * (1 + 45.3K/10K)$   
 RF open, Switching frequency = 500 KHz  
 RF short to GND, Switching frequency = 250KHz  
 RF = 187 Kohm to GND, Switching frequency = 300KHz  
 MODE:FCCM , SS time = 5.6ms  
 $V_{trip} (mV) = R_{trip} (Kohm) * I_{trip} (uA)$   
 $I_{ocp} = V_{trip} / (32 * R_{ds(on)}) + I_{ind(ripple)}/2 = 32 A$

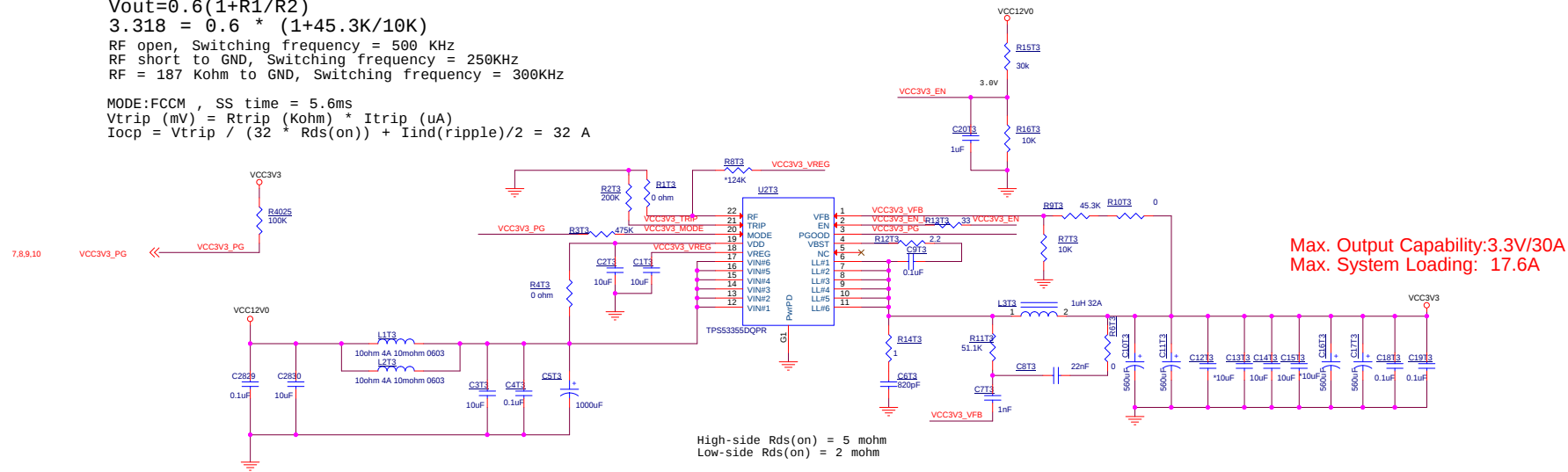


Table 1. Soft-Start and MODE Settings

| MODE SELECTION            | ACTION           | SOFT-START TIME (ms) | R <sub>MODE</sub> (kΩ) |
|---------------------------|------------------|----------------------|------------------------|
| Auto Skip                 | Pull down to GND | 0.7                  | 39                     |
|                           |                  | 1.4                  | 100                    |
|                           |                  | 2.8                  | 200                    |
|                           |                  | 5.6                  | 475                    |
|                           |                  | 5.6                  | 475                    |
| Forced CCM <sup>(1)</sup> | Connect to PGOOD | 0.7                  | 39                     |
|                           |                  | 1.4                  | 100                    |
|                           |                  | 2.8                  | 200                    |
|                           |                  | 5.6                  | 475                    |
|                           |                  | 5.6                  | 475                    |

(1) Device enters FCCM after the PGOOD pin goes high when MODE is connected to PGOOD through the resistor R<sub>MODE</sub>.