



**KOLOONA INDUSTRIES Pty Ltd**

ABN 87 002 458 031

PO Box 184, MINTO NSW 2566 Australia

P: 02 9820 5233 F: 02 9820 5244

E-Mail: [sales@koloona.com.au](mailto:sales@koloona.com.au)

**RE: RF Interference from LED devices**

During our experience in supplying LED solutions we have noted some RF interference with other electrical and electronic devices within a certain area of an operating LED. We have found in some cases; that the interference is irregular due to position change(Camp ground to camp ground) and even direction of the Vehicle and/or devices, we have also noted that in some destinations of travel it does not affect devices at all.

In short all LEDs can give off some RF interference due to the components which drive the LEDs(on the PCB) It seems that in the majority of cases there is an issue with receiving of a strong enough signal in the first place and when RF interference occurs it overcomes the weaker signal.

RF interference on electrical and electronic devices is a fact of life, it can happen when the fridge turns over; it can happen when the fan in the bathroom turns on, it can happen when your neighbour turns something on...or when the guy down the road turns his power saw on.

The IC circuit which is essentially a tuned oscillator containing a coil and a capacitor. Oscillators are the fundamental vehicle for achieving RF interference since first illustrated by the inventor of AM radio.

Koloona Industries can add; in our experience, the majority of LED users are not affected by RF interference, whether it be the modern use of ferrite core suppression rings on power leads or the way a Motorhome/Caravan is wired up or the signal is stronger than the interference, we cannot pin-point exactly as there are so many variables that can cause RF interference.