

# Bonded VDSL2 EMI Suppressor Dongle

Model DON-FB-EMI



NAME	ORDER NUMBER
DON-FB-EMI	SA-2257-0001



The Comtest Bonded EMI Suppressor is a Common Mode EMI Filter designed and universally built for all DSL services including single line VDSL2 and Bonded. This dongle will reduce or eliminate the effects of EMI on a single VDSL2 or both pairs of a DSL bonded service.

Differential signaling is used in telecommunication utilizing twisted pairs. One of the main advantages of differential signaling is increased resistance to electromagnetic noise. Resistance to electromagnetic noise is achieved only if twisted pairs are well balanced. Unfortunately, In the real world, twisted pairs are not perfectly balanced. As a result, interfering signals on Tip and Ring are not the same in amplitude and phase. Coupled signals on Tip and Ring will not be cancelled. And therefore, electromagnetic noise (EMI) has a detrimental effect on DSL lines, reducing the usable bins and creates errors.

This Comtest bonded EMI Suppressor works on both pairs to reduce or eliminate this noise and provides insertion loss of 30dB of couple signals (Electromagnetic interference signals) without adversely affecting the bonded DSL signal.

## BENEFITS

- Can cure chronic trouble issues cause by EMI
- Improved data rates on 2 pair bonded DSL service
- Reduces or eliminates errors that can cause PPOE session drops
- Improves signal to noise margins on both pairs of a bonded DSL service
- Backwards Compatible to ADSL/2+

## SPECIFICATIONS

<b>DIMENSIONS</b>	22.8mm(H) x 24.7mm(W) x 71mm(D) (0.90" x 0.97" x 2.80")
<b>OPERATING TEMPERATURE</b>	-40 to +65 °C -40 to +149 °F
<b>WEIGHT</b>	20g (0.7lbs)
<b>COMMUNICATIONS INTERFACE</b>	1 RJ11 Receptacle. In from wall plate/base cord; 1 RJ11 Plug. Out to Modem
<b>CAPACITY</b>	2 VDSL2 pairs (bonded) per line unit
<b>COMPLIANCE</b>	Compliant to CSA/UL Standards