



Compatibility Note

OML Millimeter Wave Extension Module Prerequisites

Please check one of the following equipment types, in each category, that is to be used in a system with OML Modules. System and equipment definitions are given on the attachment “8510/OML Millimeter Wave System Options.”

1) The system to be used with the OML modules is:

- _____ 8510B with Rev. 5.41 firmware or later
- _____ 8510C all firmware revisions
- _____ 8510XF user must load the Agilent supplied 8510C Operating System for waveguide operation
- _____ 8530A customer must consult with OML to determine system configuration required

2) The Millimeter Wave Controller or IF Interface Cable to be used with the OML modules is: [(xxx) system options]

- _____ 85105A Mod *customer modified* for LO 2-20 GHz, RF is 8-20 GHz, customer power supply required.
- _____ 85105A H01 LO is 2-20 GHz, RF is 8-20 GHz, customer power supply required.
- _____ 85105A H03 LO is 2-20 GHz, RF is 8-20 GHz, customer power supply required.
- _____ 85105A K10 LO is 2-20 GHz, RF is 8-28+ GHz, includes power supply for OML, not compatible with OML Option x2, requires use of a 40 GHz or higher synthesizer. N/A 85105A (004) not compatible with OML modules.
- _____ 85105A (050) *customer modified* for LO 2-20 GHz, RF is 8-20 GHz, customer power supply required. N/A
- _____ 85105A (054) not compatible with OML modules.
- _____ 08510-60105 IF Interface Cable, measure S11 and S21 only, LO & RF freq. limited by synthesizers used.

3) The LO synthesizer to be used with the OML modules is: (OML LO frequency range limited to 8-20 GHz)

- _____ 83620A/B 20GHz
- _____ 83621A 20 GHz
- _____ 83622A/B 20 GHz
- _____ 83623A/B/L 20 GHz
- _____ 83624A/B 20 GHz
- _____ 83630A/B/L 26.5 GHz
- _____ 83631A 26.5 GHz
- _____ 83640A/B/L 40 GHz
- _____ 83650A/B/L 50 GHz
- _____ 8340A/B 26.5 GHz both synthesizers must be 834x series, customer understands the spur and switching problems and is responsible for additional filtering required.
- _____ 8341A/B 20 GHz both synthesizers must be 834x series, customer understands the spur and switching problems and is responsible for additional filtering required.

4) The RF synthesizer to be used with the OML modules is: (RF frequency utilized limited by the 85105A option)

- _____ 83620A/B 20 GHz all 85105A versions require OML Option X2 above WR-10
- _____ 83621A 20 GHz all 85105A versions require OML Option X2 above WR-10
- _____ 83622A/B 20 GHz all 85105A versions require OML Option X2 above WR-10
- _____ 83623A/B/L 20 GHz all 85105A versions require OML Option X2 above WR-10
- _____ 83624A/B 20 GHz all 85105A versions require OML Option X2 above WR-10
- _____ 83630A/B/L 26.5 GHz most 85105A versions require OML Option X2 above WR-10 (WR-08 ok for K10)
- _____ 83631A 26.5 GHz most 85105A versions require OML Option X2 above WR-10 (WR-08 ok for K10)
- _____ 83640A/B/L 40 GHz can be used for all bands with 85105A-K10 all other 85105A versions require OML Option X2 above WR-10
- _____ 83650A/B/L 50 GHz can be used for all bands with 85105A-K10 all other 85105A versions require OML Option X2 above WR-10
- _____ 8340A/B 26.5 GHz all 85105A versions require OML Option X2 above WR-10 (WR-08 ok for K10) both synthesizers must be 834x series and customer understands the spur and switching problems and is responsible for additional filtering required.
- _____ 8341A/B 20 GHz all 85105A versions require OML Option X2 above WR-10 both synthesizers must be 834x series and customer understands the spur and switching problems and is responsible for additional filtering required.