



Compatibility Note

OML Millimeter Wave Extension Module Prerequisites

Configuration for Keysight (Agilent/HP) 8510

(Obsolete Product 2009: Replacement PNA)

| Action | Part Number | Description |
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| Choose and order one of the base VNA's with the options listed | 8510B | Vector Network Analyzer with Rev. 5.41 firmware or later |
| | 8510C | Vector Network Analyzer with all firmware versions |
| | 8510XF | Vector Network Analyzer; User must load the Agilent supplied 8510C Operating System for waveguide operation |
| | 8530A | Vector Network Analyzer; Refer to OML for system configuration |
| Millimeter Wave Controller or IF Interface Cable | 85105A | Mod <i>customer modified</i> for LO 2-20 GHz, RF is 8-20 GHz, customer power supply required. |
| | 85105A (H01, 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) | <i>Customer modified</i> for LO 2-20 GHz, RF 8-20 GHz, customer power supply required. N/A 85105A (054) not compatible with OML modules. |
| | 8510-60105 | IF Interface Cable, measure S11 and S21 only, LO & RF freq. limited by synthesizers used. |
| LO Synthesizer Selection | 83620A/B, 83621A, 83622A/B, 83623A/B/L, 83624A/B | 20 GHz |
| | 83630A, 83631A | 26.5 GHz |
| | 8364 A/B/L 83650A/B/L | 40 GHz 50 GHz |
| | 8340A/B | 26.5 GHz both synthesizers must be 834x series, customer understands the spur switching problems and is responsible for additional filtering required. |
| | 8341A/B | 20 GHz both synthesizers must be 834x series, customer understands the spur switching problems and is responsible for additional filtering required. |
| RF Synthesizer Selection | 83620A/B, 83621A, 8362A/B, 83623A/B/L, 83624A/B | 20 GHz all 85105A versions require OML Option X2 above WR-10 |
| | 83630/B/L, 83631A | 26.5 GHz most 85105A versions require OML Option X2 above WR-10 (WR-08 ok for K10) |
| | 83640A/B/L 83650A/B/L | 40 GHz can be used for all bands with 85105A-K10; all other 85105A versions require OML Option X2 above WR-10 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 are responsible for additional filtering. |
| | 8341A/B | 20 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 are responsible for additional filtering. |