



## OML Millimeter Wave Extension Module Prerequisites

### Configuration for Keysight PNA/ PNA-X Network Analyzer (N52XXX Series)

Action	Part Number	Description	
Choose and order one of the four base VNAs, with the options listed	N5222A or N5242A	2 or 4 port 26.5 GHz PNA or PNA-X network analyzer	
	N5224A or N5244A	2 or 4 port 43.5 GHz PNA or PNA-X network analyzer	
	N5225A or N5245A	2 or 4 port 50 GHz PNA or PNA-X network analyzer	
	N5227A or N5247A	2 or 4 port 67 GHz PNA or PNA-X network analyzer	
Order Test Set*	N5261A	2-port millimeter wave test set controller (option 112)	
	-or- N5262A	4-port millimeter wave test set controller w/ 1.85 coaxial cables (option 114)	
Choose pair of mm-Wave modules	OML VxxVNA2-T/R, 2 each	Choose appropriate OML, Inc. mm-wave band module. Include external OML power supply or equivalent (w/ required attenuators and bias-tee configurations)	
Options Required w/ VNA	Option 20	IF Access (minimum option required for test set controller connection)	
	N5222A or N5242A	Minimum option required for direct connect with PNA	Minimum option required for direct connect with PNA-X
		2-port: Unsupported 4-port: Requires option 080 and options 401, or 417, or 419	2-port: option 200 or 200/219 and option 080 with option 224 4-port: Option 400 or 400/419 and option 080
		2 port: Unsupported 4-port: Requires option 080 and option 401, or 417, or 419	2-port: option 200 or 200/219 and option 080 with option 224 4-port: Option 400 or 400/419 and option 080
	N5225A or N5245A	2 port: Unsupported 4-port: Requires option 080 and option 401, or 417, or 419	2-port: option 200 or 200/219 and option 080 with option 224 4-port: Option 400 or 400/419



## Compatibility Note

			and option 080
	N5227A or N5247A	2 port: Unsupported 4-port: Requires option 080 and option 401, or 417, or 419	2-port: option 200 or 200/219 and option 080 with option 224 4-port: Option 400 or 400/419 and option 080
	RF/LO/IF/DC Cables		One (for 2-ports) and two (for 4-ports)

\*Note: PNA and PNA-X system can be configured as a direct connect w/out test set controller. Please see OML App Note at:

[http://www.omlinc.com/images/pdf/Library/Application\\_Notes/41-101019\\_Keysight\\_PNA\\_without\\_N526xA\\_Controller%20rev3-dv.pdf](http://www.omlinc.com/images/pdf/Library/Application_Notes/41-101019_Keysight_PNA_without_N526xA_Controller%20rev3-dv.pdf) (for PNA)

-or-

[http://www.omlinc.com/images/pdf/Library/Application\\_Notes/41-100528\\_Keysight\\_PNA-X\\_without\\_N526xA\\_Controller%20rev3-dv.pdf](http://www.omlinc.com/images/pdf/Library/Application_Notes/41-100528_Keysight_PNA-X_without_N526xA_Controller%20rev3-dv.pdf) (for PNA-X)