



## OML Millimeter Wave Extension Module Prerequisites

### Configuration for ME7838A VectorStar (2-Port Configuration)

The VectorStar ME7838A mm-wave system combines the MS4640X series VNA and 3739B test set to control 2 external mm-wave modules for measurement frequencies from 110 GHz to 750 GHz and higher in waveguide bands. The 3739B test set routes the internal RF and LO signals from VectorStar thus eliminating the need for external sources.

Action	Part Number	Description
Choose and order one of the four base VNAs, with the options listed	MS4648A/B MS4640A/B-007 MS4642A/B-082	Vector Network Analyzer, 10 MHz to 20 GHz Receiver Offset Option Millimeter-Wave Interface
	MS4644A/B MS4640A/B-007 MS4644A/B-082	Vector Network Analyzer, 10 MHz to 40 GHz Receiver Offset Option Millimeter-wave Interface
	MS4645A/B MS4640A/B-07 MS4645A/B-082	Vector Network Analyzer, 10 MHz to 50 GHz Receiver Offset Option Millimeter-wave Interface
	MS4647A/B MS4640A/B-007 MS4647A/B-082	Vector Network Analyzer, 10 MHz to 70 GHz Receiver Offset Option Millimeter-wave Interface
Order Test Set	3739B	Broadband & mm-Wave Test Set
Order System Cables	SM6626	mm-Wave module interface cables substituting for broadband cables (1 pair)
Choose pair of mm-Wave modules	OML V <sub>xx</sub> VNA2-T/R, 2 each	Choose appropriate OML, Inc. mm-wave band module. Include external OML power supply or equivalent.
Add options if desired to the selected VNA	MS464xA/B-051	External VNA Loops (Substitute MS464xA-082 with MS464xA-083)
	MS464xA/B-061	Active Measure Suite, 2 atten. (Substitute MS464xA-082 with MS464xA-083)
	-or- MS464xA/B-062	Active Measure Suite, 4 atten. (Substitute MS464xA-082 with MS464xA-083)
	MS4640A/B-070	70 KHz coverage
	MS4640A/B-002	Time Domain



## OML Millimeter Wave Extension Module Prerequisites

### Configuration for ME7838A VectorStar (4-Port Configuration)

The VectorStar ME7838A mm-wave system combines the MS4640X series VNA and 3739B test set to control 2 external mm-wave modules for measurement frequencies from 110 GHz to 750 GHz and higher in waveguide bands. The 3739B test set routes the internal RF and LO signals from VectorStar thus eliminating the need for external sources. If 4 ports are required, a SM6586 test set and the MN4697B 4 port test set with 2 additional modules can be attached.

Action	Part Number	Description
Choose and order one of the four base VNAs, with the options listed	MS4642A/B MS4640A/B-007 MS4642A/B-082 MS4642A/B-051, 061, or 062	Vector Network Analyzer, 10 MHz to 20 GHz Receiver Offset Option Millimeter-wave Interface Access Loop or Active Suite
	MS4644A/B MS4640A/B-007 MS4644A/B-082 MS4644A-051, 061, or 062	Vector Network Analyzer, 10 MHz to 40 GHz Receiver Offset Option Millimeter-wave Interface Access Loop or Active Suite
	MS4645A/B MS4640A/B-007 MS4645A/B-082 MS4645A/B-051, 061, or 062	Vector Network Analyzer, 10 MHz to 50 GHz Receiver Offset Option Millimeter-wave Interface Access Loop or Active Suite
	MS4647A/B MS4640A/B-007 MS4647A/B-082 MS4647A/B-051, 061, or 062	Vector Network Analyzer, 10 MHz to 70 GHz Receiver Offset Option Millimeter-wave Interface Access Loop or Active Suite
Order Test Set	3739 B	Braodband & mm-Wave Tes Set
Order 4 Port Test Set	MN4697B	4 Port Test Set
Order Master Test Set	SM6586	4 Port Master Test Set
Order system cables	SM6626 (2)	mm-Wave module interface cables substituting for broadband cables. (1 pair)
Choose mm-Wave modules	OML VxxVNA2-T/R, 4 each	Choose appropriate OML, Inc. mm-wave band module. Include external OML power supply or equivalent.
Add options if desired to the selected VNA	MS4640A/B-070	70 KHz coverage
	MS4640A/B-002	Time Doman