MICROWAVE TRANSCEIVER KIT

PROJECT NO. 1: UVNA-63 DIY VECTOR NETWORK ANALYZER



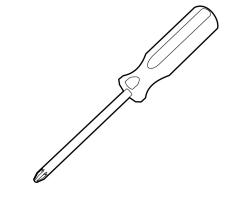
Instructions for Assembly



WARNINGS AND RECOMMENDATIONS FOR PROPER USE





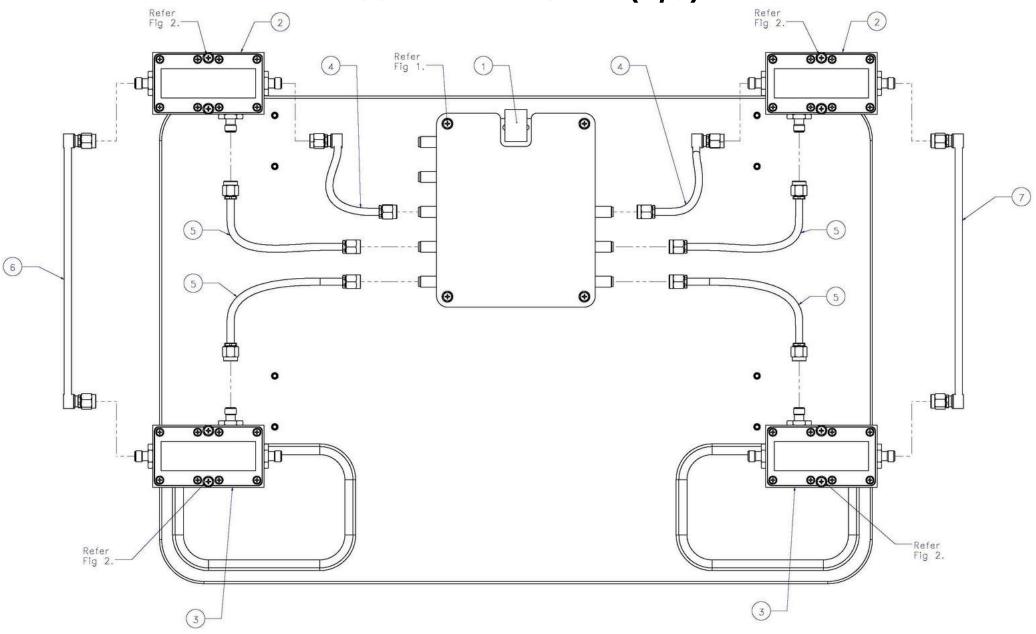


Phillips-Head screwdriver required

- An 8 lb-in calibrated torque wrench is recommended for interconnection of components in this kit.
- Keep connectors clean from foreign objects and debris to ensure accurate measurements.
- When making SMA connections, always hold the female connector steady using the anti-torque nut while rotating the Male SMA connector coupling nut to avoid cross-threading or damage to the connectors.



ASSEMBLY DIAGRAM (2/3)



Refer to BOM for assembly numbers.

Note: Please note coupler orientation



ASSEMBLY DIAGRAM (3/3)

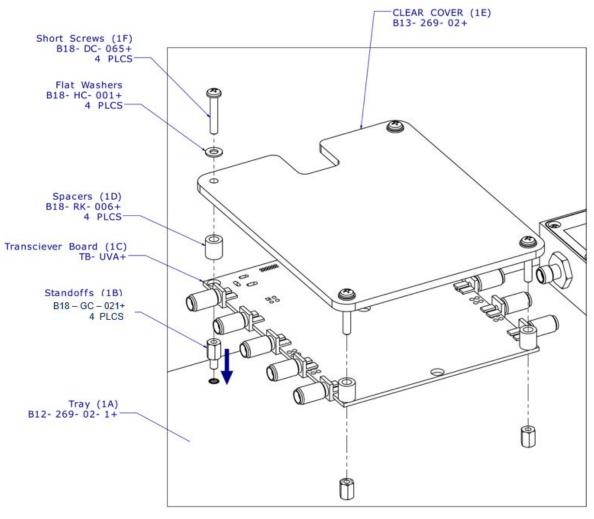


Figure 1

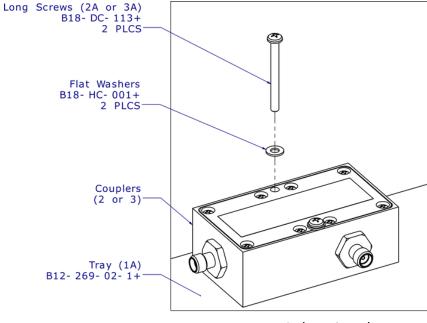


Figure 2 (4 Plcs.)



BILL OF MATERIALS

Kit Components

Assembly No.		Description	MCL P/N	Quantity
1 (Refer Fig. 1)	1A	Tray	B12-269-02-1+	1
	1C	Transceiver Board	TB-UVNA+	1
	1E	Clear Cover 0.125" Thick	B13-269-02+	1
2 (Refer Fig. 2	2)	16dB High Directivity Coupler	ZHDC-16-63-S+	2
3 (Refer Fig. 2)		10dB High Directivity Coupler	ZHDC-10-63-S+	2
4		141 Hand-Flex 3" Cable	141-3SMRSM+	2
5		141 Hand-Flex 4" Cable	141-4SM+	4
6		141 Hand-Flex 6" Cable	141-6SMR+	2
-		141 Hand-Flex 12" Cable	141-12SMR+	1
-		Flexible 141 6" Test Cable	FL141-6SM+	2
-		USB 3.0 CABLE	B66-275+	1

Assembly parts				
Assembly No	0.	Description	MCL P/N	Quantity
1 (Refer Fig. 1)	1B	Stand offs	B18-GC-021+	4
	1D	Spacers	B18-RK-006+	4
	1F	Short Screws	B18-DC-065+	4
2A or 3A		Long Screws	B18-DC-113+	8
-		Flat Washers	B18-HC-001+	12

Calibration Kit			
Assembly No.	Description	MCL P/N	Quantity
-	Female - Open	B20-64-F6+	1
-	Female - Short	B20-64-F7+	1
-	Female - Load	ANNEF-50+	1
-	Female - Thru	SF-SF50+	1

DUT's			
Assembly No.	Description	MCL P/N	Quantity
-	Band Pass Filter, 2450 MHz	VBF-2435+	1
-	Low Pass Filter, 1500 MHz	VLF-1500+	1
-	GVA-84 EVAL BOARD	TB-410-84+	1
-	3 dB Attenuator, 1 Watt	VAT-3+	1
-	6 dB Attenuator, 1 Watt	VAT-6+	1
-	15 dB Attenuator, 1 Watt	VAT-15+	1
-	50 Ohm Termination	ANNE-50+	1
-	SMA Male - SMA Male Adapter	SM-SM50+	2
-	SMA Female - SMA Female Adapter	SF-SF50+	2

Supplemental			
Assembly No.	Description	MCL P/N	Quantity
-	SMA Wrench	B85-TM-134	1

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