

Model SSISOC50V80M18G

- 80 MHz 18 GHz
- 50 V/m at 1 Meter Test Distance

Features:

- Customized to meet your needs
- Performance guarantee
- Global support and service

Application Standards:

ISO 11452-2 Component Testing

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AR RF/Microwave Instrumentation 160 Schoolhouse Rd Souderton, PA 18964 215.723.8181 info@arworld.us www.arworld.us ISO 9001:2015 Certified ISO 17025:2017 Accredited The SSISOC50V80M18G System is designed to generate up to 50 V/m CW at a 1m test distance for ISO 11452-2 full-vehicle testing from 80 MHz-18 GHz. The signal generation, control, and power monitoring equipment shall be mounted in a ventilated equipment rack along with the RF amplifiers.

The SSISOC50V80M18G AR System consists of the AR equipment, listed herein. Please refer to individual product specification sheets for details.

The export classification for this equipment is 3A001. This equipment is controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

AR Standardized Systems are customizable upon request. Contact AR for all such requests.



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Model SSISOC50V80M18G System Summary Requirements

Parameter	Description		
System Frequency Range	80 MHz - 18 GHz		
CW Field Strength	50 V/m		
Test Distance	1 meter		
Amplifier Configuration	Three (3) RF amplifiers were chosen for this test system: Model 250W1000C: 80 - 1000 MHz, 250 W Model 75S1G6C: 1 - 6 GHz, 75 W Model 40S6G18-L: 6 - 18 GHz, 40 W		
Antenna Configuration	Dedicated antennas for each amp to provide optimal field generation: Model ATR80M6G, Log-periodic Antenna, 80 MHz – 6 GHz Model DRH-118, Horn Antenna, 1 – 18 GHz		
RF Cable Configuration	Two sets (one for each amp/antenna) consisting of 2 and 5 meter lengths and designated bulkhead feedthroughs for each set.		
Software Configuration	System and testing will be controlled using emcware® software which is preloaded and delivered on a new laptop as part of overall system. Price includes a 1 year support contract.		
Design Approach	Self-contained equipment rack with internal pre-wired RF and power with automatic RF switching via SCP2000. AC power is filtered and distributed through an internal power distribution unit. All RF equipment input and outputs are on rear-panel of devices.		
Installation, Site Acceptance Testing (SAT) and Training	One week of installation, SAT and Training will be provided by AR Systems Engineers		
Export Classification	3A001		
Assumptions:			

3 dB power margin on amplifiers to accommodate reasonable chamber and system losses. Field Strength calculations are based on free-space conditions.



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Model SSISOC50V80M18G Equipment List

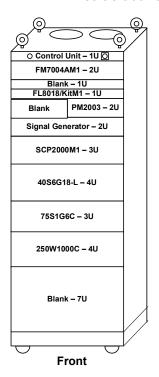
Component	Quantity
Model 250W1000C-R-N-R-N-NE, RF Amplifier, 80 MHz - 1 GHz, 250 W CW	1
Model 75S1G6C-R-N-R-N-NE, RF Amplifier, 1 – 6 GHz, 75 W CW	
Model 40S6G18-L-R-N-R-N-NE-U, RF Amplifier, 6 – 18 GHz, 40 W CW	
Model DC6180A, Dual Directional Coupler, 80 MHz – 1 GHz, 600 W	
Model DC7205A, Dual Directional Coupler, 0.7 - 6 GHz, 250 W	
Model DC7435A, Dual Directional Coupler, 4 – 18 GHz, 200 W	
Model ATR80M6G, Log-periodic Antenna, 80 MHz – 6 GHz, 2000 W CW	
Model DRH-118, Horn Antenna, 1–18 GHz	1
Model TP1000BM4, Non-metallic Tripod	1
Model SCP2000M1, System Controller, DC – 18 GHz	
Signal Generator, 9 kHz - 20 GHz (Keysight N5173B-520 with options -1EM, -UNT, -UNW, -1E1, -UK6, -1CM110A)	
Model PM2003, Power Meter, 3 channels	
Model PH2005, Power Head, 500 kHz - 18 GHz, -70 to +20dBm	
Model FM7004AM1, Field Monitor	
Model FL8018/KitM1, Field Probe, 2 MHz – 18 GHz, 2-1000 V/m	
Model PS2000B, Probe Stand, Non-Conductive	
Model CC11111020, Coaxial Cable, DC - 18 GHz, N connectors, 2 m long	
Model CC11111050, Coaxial Cable, DC - 18 GHz, N connectors, 5 m long	
All internal Interconnect cables between system components	
Test System Control PC	
Model emcware®, Radiated Susceptibility, Conducted Immunity, and Emissions Test Software*	
emcware®, 1-year support contract*	

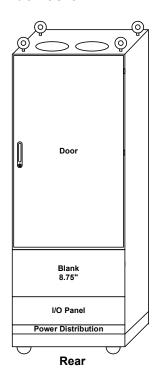
^{*}Model emcware® and service contract to be quoted as separate line items and are therefore not included in the price of the system.



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SSISOC50V80M18G Racks





Control Rack Specifications		Units
Size (LV)MVD)	152.4 x 56.0 x 97.5	cm
Size (H x W x D)	60.0 x 22.1 x 38.4	in
Mojobt	109	kg
Weight	240	lb
Power Input	240 VAC, 1-phase, 30 A	

To order AR Products, call: 215.723.8181. For an applications engineer, call: 800.933.8181. Direct to Service call: 215.723.0275 or email: service@arworld.us

For Faxing Orders: 866.859.0582 (Orders Only Please) info@arworld.us

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