# **NSG 4070B APPLICATION FOR FORD EMC-CS-2009**

### Test parameter

#### Standard: Ford EMC-CS-2009 Frequency range: 1 MHz to 400 MHz Level 1: 64 to 100 dBµA Level 2: 70 to 106 dBµA Modulation: e.g. CW, 1 kHz AM 80% (Peak conservation) Test method: Substitution method with optional monitoring probe Monitoring probe: only for information (substitutions method)

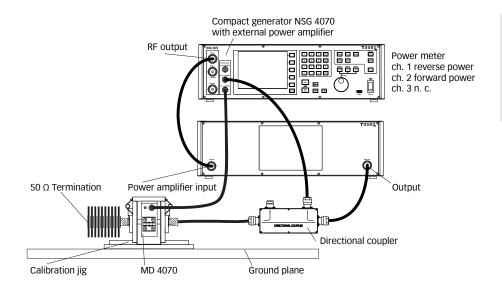
### **Equipment**

Signal generation:	NSG 4070B-0
Modulator:	included in NSG 4070B-0
Power meter:	3x included in NSG 4070B-0
Power amplifier:	CBA 400M-110
Directional coupler:	DCP 0100A
Current injection probe:	CIP 9136A
Monitoring probe:	MD 4070
Calibration jig:	PCJ 9201B
Termination:	50 Ω 10 W
Attenuation:	20 dB 10 W
Software:	incl. in NSG 4070 or optional
	C5I or WIN 6000



WARNING: The power meter inputs are very sensitive. It is the user's responsibility to ensure that the selected test levels does not damage the equipment. Any hardware/setup changes should be calculated before starting the test.

## Calibration set-up for monitoring probe

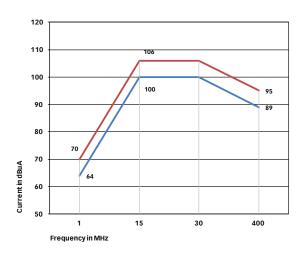


# Remarks:

The monitoring probe MD 4070 needs to be calibrated in the way of its use (active, passive or with switching at a specific frequency from active to passive).

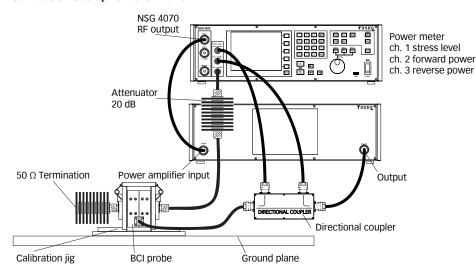


Advanced Test Solutions for EMC



Test level — for Ford EMC-CS-2009 Level 1
Test level — for Ford EMC-CS-2009 Level 2

### Calibration set-up for level 1 and 2

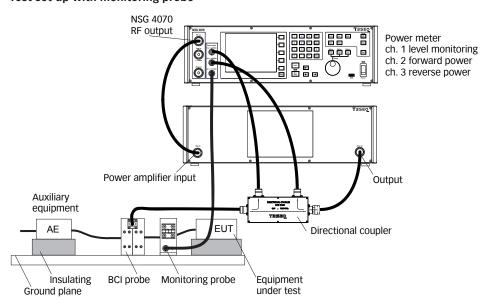


Attenuator: 20 dB, 10 W Termination: 50  $\Omega$  10 W

#### Remarks:

Power meter channel 1 needs to be protected with a 20 dB attenuator.

### Test set-up with monitoring probe



Use of MD 4070 in the passive mode.

### Caution:

The use of the MD 4070 in the active mode during tests with stress levels above 86 dB $\mu$ A could damage power meter channel 1 of NSG 4070.