

CM/DM SEPARATOR

EM5016/EM5016A



Preface

First of all, thank you for purchasing our products, this instruction manual is the description about the function, usage, operation attention points, etc. Before use, please read the instructions carefully and use correctly.

Manual annotation will use the following symbols to distinguish.



This symbol means it is harmful to the machine and human body; you must strictly follow the instruction manual to operate.

Warning

In the case of wrong operation, the user risk injury. The content under this mark records the relevant matters needing attention to avoid such dangers.

Notice

The user may have suffered minor injuries and material damage while with the wrong operation, to avoid such situation, note the matters needing attention.

Note

This symbolizes important note about how to use the machine.

To the safely use the machine, you must abide by the following safety precautions strictly. The violation against the manual is likely to damage the protective function of the machine. In addition, the company is not responsible for any safety problem caused by the violation of matters needing attention in operation.



- **Make sure the product is used in rated power range.**
- **Do not open the shell during operation.**
- **Do not use the product in humid environment or places with flammable and explosive materials.**
- **Keep the device clean and dry before operation.**
- **If there's anything wrong with the product, please contact us ASAP. Do not open the shell for repairing on your own or there could be accident.**

1. Summary

EM5016/EM5016A CM/DM separator is a device mainly used for analyzing the common mode interference and differential mode interference of the interference signal in the Conduct test. It can provide pin-point instruction to the Conduct EMI debugging, especially the test of EMI filter.

2. Product Electrical Specification

	EM5016	EM5016A
Bandwidth	9kHz-60MHz	150kHz-108MHz
Max input power	+30dBm	
CM output voltage	$V_{out}=[V_n+V_l]/2 - 10dB$	
DM output voltage	$V_{out}=[V_n+(-V_l)]/2 - 10dB$	
Operating temperature	0°C-55°C	
Storage temperature	-40°C-80°C	

3. Application

- Conduct EMI debugging;
- Designing parameter of the EMI filter;

4. Product instruction

Notice

- ① Please be careful about the maximum input power (30dBm continuous power). There could be permanent damage to the device when the power surpasses rated range.
- ② The length and impedance characteristics of CH1 input cable and CH2 input cable need to synchronize or the result will be deviated.

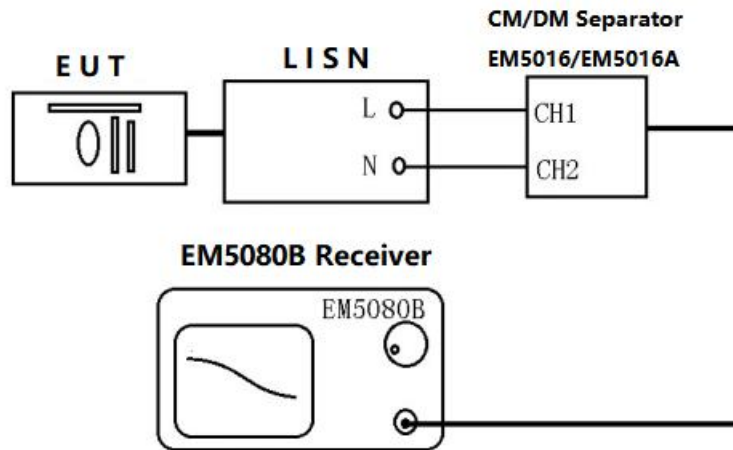
5. Environmental Specifications

Operating temperature	0 °C to + 55 °C
Storage temperature	-40 °C to + 75 °C

6. Mechanical Specifications

Dimensions(L*W*H)	130*111*65mm
Net Weight	702g

7. Usage Diagram



8. Packing List

Packing List	
Name	Number
CM/DM Separator	1
Instruction Manual and Warranty Card	1
Test Report	1

TESTLINK

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