



Harmonized European Standard

**Electromagnetic compatibility  
and Radio spectrum Matters (ERM);  
Road Transport and Traffic Telematics (RTTT);  
Automotive radar equipment operating in the  
24,05 GHz up to 24,25 GHz or 24,50 GHz frequency range;  
Part 2: Harmonized EN covering the essential requirements  
of article 3.2 of the R&TTE Directive**

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Reference

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Keywords

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## Foreword

This Harmonized European Standard (EN) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM).

The present document has been produced by ETSI in response to mandate M/284 issued from the European Commission under Directive 98/34/EC [i.1] as amended by Directive 98/48/EC [i.4].

The title and reference to the present document are intended to be included in the publication in the Official Journal of the European Union of titles and references of Harmonized Standard under the Directive 1999/5/EC [i.2].

See article 5.1 of Directive 1999/5/EC [i.2] for information on presumption of conformity and Harmonized Standards or parts thereof the references of which have been published in the Official Journal of the European Union.

The requirements relevant to Directive 1999/5/EC [i.2] are summarized in annex A.

The present document is part 2 of a multi-part deliverable covering Electromagnetic compatibility and Radio spectrum Matters (ERM); Road Transport and Traffic Telematics (RTTT); Automotive radar equipment operating in the 24,05 GHz up to 24,25 GHz or 24,50 GHz frequency range, as identified below:

Part 1: "Technical characteristics and test methods";

**Part 2: "Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive".**

<b>National transposition dates</b>	
Date of adoption of this EN:	31 October 2013
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## Introduction

The present document is part of a set of standards developed by ETSI and is designed to fit in a modular structure to cover all radio and telecommunications terminal equipment within the scope of the R&TTE Directive [i.2]. The modular structure is shown in EG 201 399 [i.3].

# 1 Scope

The present document specifies the technical requirements and methods of measurement for automotive radar equipment as described in the scope of EN 302 858-1 [1]:

- with an integral antenna;
- for low power motion and distance monitoring radars for mobile applications only;
- operating in the 24,05 GHz to 24,50 GHz frequency range.

The applicability of the present document covers only the 24 GHz Narrow Band Short Range Radar (NB SRR) for road vehicles. The present document does not necessarily include all the characteristics which may be required by a user, nor does it necessarily represent the optimum performance achievable.

The present document is intended to cover the provisions of Directive 1999/5/EC [i.2] (R&TTE Directive), article 3.2, which states that "... radio equipment shall be so constructed that it effectively uses the spectrum allocated to terrestrial/space radio communications and orbital resources so as to avoid harmful interference".

These radio equipment types are capable of operating in all or part of the frequency band as specified below.

**Table 1: Narrow band short range radar devices frequency of operation**

	Frequency Bands/frequencies	Applications
Transmit and Receive	24,05 GHz to 24,25 GHz	Short range radar for vehicle applications
Transmit and Receive	24,05 GHz to 24,50 GHz	Short range radar for vehicle applications (see note)
NOTE: For WLAM operation mode only.		

In addition to the present document, other ENs that specify technical requirements in respect of essential requirements under other parts of article 3 of the R&TTE Directive [i.2] may apply to equipment within the scope of the present document.

NOTE: A list of such ENs is included on the web site <http://www.newapproach.org/>.

## 2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

### 2.1 Normative references

The following referenced documents are necessary for the application of the present document.

- [1] ETSI EN 302 858-1 (V1.2.1) (07-2011): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Road Transport and Traffic Telematics (RTTT); Short range radar equipment operating in the 24,05 GHz to 24,25 GHz frequency range for automotive application; Part 1: Technical characteristics and test methods".
- [2] ETSI TR 100 028 (all parts) (V1.4.1) (12-2001): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics".