

STN	Zabezpečovanie výrobkov kozmického programu. Návrh, výber, obstarávanie a používanie monolitických mikrovlnných integrovaných obvodov (MMIC).	STN EN 16602-60-12 31 0542
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Space product assurance - Design, selection, procurement and use of die form monolithic microwave integrated circuits (MMICs)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/15

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Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, odbor SÚTN, 2015
Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

English version

Space product assurance - Design, selection, procurement and use of die form monolithic microwave integrated circuits (MMICs)

Assurance produit des projets spatiaux - Conception, sélection, approvisionnement et utilisation de circuits intégrés monolithique hyperfréquence de forme die

Raumfahrtproduktsicherung - Design, Auswahl, Beschaffung und Nutzung von MMIC

This European Standard was approved by CEN on 13 March 2014.

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Table of contents

Foreword	6
Introduction.....	7
1 Scope.....	8
2 Normative references	9
3 Terms, definitions and abbreviated terms.....	10
3.1 Terms from other standards.....	10
3.2 Terms specific to the present document	10
3.3 Abbreviated terms.....	12
4 General requirements.....	14
4.1 Overview	14
4.2 Flight model MMIC dies lots procurement.....	14
4.3 Minimum quality requirements	14
5 Selection.....	15
5.1 General.....	15
5.1.1 Overview	15
5.1.2 Requirements.....	15
5.2 Process selection.....	16
5.3 Models, and design tools	16
6 Responsibilities	17
7 MMIC design	18
7.1 Principles of MMIC design	18
7.1.1 Overview	18
7.1.2 General	18
7.1.3 Number of design iterations	18
7.1.4 Design trade-offs.....	19
7.2 Design tasks	19
7.2.1 Electrical design specification	19
7.2.2 Design variations	19

7.2.3	Parasitic effects.....	19
7.2.4	Transient simulation	20
7.2.5	Thermal analysis	20
7.2.6	Sensitivity to temperature, process variation and supply voltages	20
7.2.7	Design testability	21
7.2.8	Design stability analysis	21
7.2.9	Maximum rating and robustness	21
7.2.10	Layout optimization	22
7.2.11	DRC or ERC	22
7.3	Design reviews	23
7.3.1	General	23
7.3.2	MMIC architecture.....	23
7.3.3	Schematic	23
7.3.4	Simulation results.....	23
7.3.5	Sensitivity and stability analysis	24
7.3.6	Derating	24
7.3.7	Layout.....	24
7.3.8	Tests matrix	24
7.3.9	Assembly	24
7.3.10	Compliance matrix	25
7.3.11	MMIC detail specification	25
7.3.12	Development plan	25
7.3.13	Design documentation	25
7.3.14	MMIC summary design sheet.....	25
8	Application approval	26
8.1	General.....	26
8.2	Test flow and test procedures	26
9	Procurement and LAT specification	28
10	Procurement	29
10.1	General.....	29
10.1.1	Overview.....	29
10.1.2	Methodology	29
10.2	Wafer screening and WAT	29
10.2.1	General	29
10.2.2	Wafer screening and WAT flows	29
10.2.3	Wafer manufacturing and control	30

10.2.4	Wafer acceptance test	31
10.2.5	Packaging	32
10.2.6	Deliverables	32
10.3	Dies incoming testing.....	33
10.3.1	General	33
10.3.2	Assembly test.....	33
10.3.3	Visual inspection	34
10.3.4	Electrical characterization	34
10.4	User LAT procurement sequences	35
10.4.1	General	35
10.4.2	Sequence A: process, design and application validated	38
10.4.3	Sequence B: process validated and new design or new application.....	38
10.4.4	Sequence C: process, design and application not validated	39
10.4.5	Sequence D: application approval testing	40
10.4.6	Destructive physical analysis after user LAT	40
10.5	Failure criteria and lot failure.....	41
Annex A (normative) MMIC electrical design specification - DRD		42
Annex B (normative) Compliance matrix for custom MMIC design - DRD		43
Annex C (normative) Design package document - DRD		44
Annex D (normative) MMIC summary design sheet - DRD		46
Annex E (normative) MMIC procurement specification - DRD.....		47
Annex F (normative) MMIC lot acceptance specification for user LAT - DRD		48
Annex G (normative) MMIC visual inspection summary sheet - DRD		50
Annex H (informative) References		51
Bibliography.....		52
 Figures		
Figure 10-1: Wafer screening and WAT		30
Figure 10-2: Dies or die incoming testing		34
Figure 10-3: Acceptance flow for flight model die lots.....		35
Figure 10-4: User LAT flow.....		37

Tables

Table 6-1: Customer and supplier responsibilities for the “foundry” and “catalogue” modes	17
Table 8-1: CTA tests and procedures for testing in sequence D	27

Foreword

This document (EN 16602-60-12:2014) has been prepared by Technical Committee CEN/CLC/TC 5 "Space", the secretariat of which is held by DIN.

This standard (EN 16602-60-12:2014) originates from ECSS-Q-ST-60-12C.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2015, and conflicting national standards shall be withdrawn at the latest by March 2015.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

This document has been developed to cover specifically space systems and has therefore precedence over any EN covering the same scope but with a wider domain of applicability (e.g. : aerospace).

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

This Standard covers the design, selection, procurement and use of III-V monolithic microwave integrated circuits (MMICs) for space equipment.

It defines the design activity for the technical (methodology, phases to be followed) and quality (quality assurance, design review) aspects, and, the selection and procurement rules for these components taking into account whether or not the processes have been validated.

1

Scope

This Standard applies to all types of MMIC (monolithic microwave integrated circuit) based on III-V compound materials for RF applications (i.e. frequency range ≥ 1 GHz). The requirements for the procurement of components in die form are defined.

It is not within the scope of this Standard to address packaged MMICs and discrete microwave components, these are dealt with in the relevant ESCC specification (ESCC 9010 and ESCC 5010).

This standard may be tailored for the specific characteristic and constraints of a space project in conformance with ECSS-S-ST-00.

2

Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this ECSS Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this ECSS Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references the latest edition of the publication referred to applies.

EN reference	Reference in text	Title
EN 16601-00-01	ECSS-S-ST-00-01	ECSS system — Glossary of terms
EN 16602-30-11	ECSS-Q-ST-30-11	Space product assurance — Derating -- EEE components
EN 16602-60	ECSS-Q-ST-60	Space product assurance - Electrical, electronic and electromechanical (EEE) components
EN 16602-60-05	ECSS-Q-ST-60-05	Space product assurance — Generic requirements for hybrids
	MIL-STD-883	Tests methods and procedures for microelectronics
	ESCC 20600	Preservation, packaging and despatch of ESCC electronic components
	ESCC 24600	Minimum quality management system requirements
	ESCC 2049010	Internal visual inspection of monolithic microwave devices
	ESCC 2439010	Requirements for capability approval of MMICs
	ESCC 9010	Generic specification for MMICs

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