
**Fine ceramics (advanced ceramics,
advanced technical ceramics) —
Characteristic of piezoelectric
properties under high-load
conditions —**

**Part 2:
Electrical transient response method
under high vibration levels**

Céramiques techniques (céramiques avancées, céramiques techniques avancées) — Caractéristique des propriétés piézoélectriques en conditions de charge élevée —

Partie 2: Méthode de la réponse transitoire électrique sous des niveaux vibratoires élevés



iTeh Standards
(<https://standards.itih.ai>)
Document Preview

ISO 21819-2:2018

<https://standards.itih.ai/catalog/standards/iso/54a78df1-706f-4f07-9dc9-f73e8d8742b8/iso-21819-2-2018>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2018

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols	2
5 Principle	2
6 Measurement equipment	4
6.1 General.....	4
6.2 Function generator.....	4
6.3 Power amplifier.....	4
6.4 Vibration velocity meter.....	4
6.5 Current probe.....	5
6.6 Digital storage oscilloscope.....	5
6.7 Test piece holder.....	5
6.8 Numerical analysis software (numerical analyser).....	5
7 Specimens	5
7.1 Test piece form.....	5
7.2 Measurement of test piece density.....	5
7.3 Measurement of characteristics values.....	5
8 Measurement procedures	6
9 Analytical procedures	6
10 Calculation of characteristic values	8
10.1 Calculation procedures for characteristic values.....	8
10.2 How to obtain principal constants and round off characteristic values.....	9
11 Report of test results	10
Annex A (informative) Example of a data evaluation	11
Bibliography	12