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Multimeter Fluke 70

Data Sheet Multimeter

Fluke 70 Datasheet

Application

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~~multimeter repair~~ ~~Fluke 177 Training~~ ~~How~~  
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~~Instrumentation Technician Course~~  
~~Lesson 4~~ FLUKE 23 HOW TO USE  
Episode 65 ~~Fluke 11 Multimeter Review~~  
~~Fluke 77 teardown, calibration and~~  
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~~Multimeter Review / buyers guide: Fluke~~  
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Multimeter ~~What is a True RMS meter?~~

~~Fluke Pro Tips~~ Fluke 179 Digital

Multimeter How to Use The Data Logging

Feature on The Fluke 289 Digital

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~~multimeter (1979)~~ Data Sheet Multimeter



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## Fluke 70 Data Sheet Application

Click on the main image for a larger view and to see image descriptions. The Fluke 77 series IV digital multimeter has the features needed to repair most electrical and electronic problems. This meter is simple to use and has significant improvements over Fluke's original 70

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Series with more measurement functions, conformance to the latest safety standards, and a much larger display that's easier to view.

Fluke 70 Series | TTid

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*Page 10/69*

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monday,cl on November 29, 2020 by  
guest is proposed in order to estimate the  
maximum allowed switching frequency  
based on the thermal design of the SiC  
devices. Using these results, hard- and soft-  
switching converters are

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Application | monday

Fluke 87V MAX True-rms Digital Multimeter. Rugged, dustproof IP67 outer shell for the most extreme work sites. Measure up to 1000 V ac and dc.

Digital Multimeters | Fluke

[Books] Data Sheet Multimeter Fluke 70

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Application ...

The Fluke 179 True-rms Multimeter has the features needed to find most electrical and HVAC problems. Simple to use with significant improvements over the original Fluke 70 Series. □ Wide 1000 V

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measurement range □ True-rms for precise measurement of non-linear signals □ Capacitance, resistance, continuity and frequency ...

For maintenance and field service - Naust  
Each Fluke 20, 70, 80, 170 and 180 Series  
DMM will be free from defects in material

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and workmanship for its lifetime. As used herein, "lifetime" is defined as seven years after Fluke discontinues manufacturing the product, but the warranty period shall be at least ten years from the date of purchase. This warranty does not cover fuses, disposable batteries, damage from neglect, misuse, contamination, alteration, accident



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or abnormal conditions of operation or handling, including failures ...

## 80 Series III

The Fluke 77 IV digital multimeter has the features needed to repair most electrical and electronic problems. This meter is simple to use and has significant

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improvements over Fluke's original 70 Series with more measurement functions, conformance to the latest safety standards, and a much larger display that's easier to view. It measures: Wide 1000 V measurement range.

Fluke 77 IV Digital Multimeter | Fluke

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□70% RH at 30 °C to 40 °C: Altitude:  
Operating: 2000 m: Storage: 12,000 m:  
Temperature coefficient: 0.1 X (specified  
accuracy) /°C (<18 °C or >28 °C) Fuse  
protection for current inputs: 440 mA,  
1000 V Fast Fuse, Fluke specified part  
only. 11A, 1000V Fast Fuse, Fluke  
specified part only. Size (H x W x L) 183

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x 91 x 49.5 mm: Weight: 455 g: IP rating:  
IP 40: Safety

Fluke 15B+ Digital Multimeter | Fluke  
Fluke 289 True-RMS Logging Multimeter  
helps you find little problems before they  
become big ones. The Fluke 289 is the  
next generation high performance

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Industrial logging multimeter. This Fluke Connect-compatible DMM is designed to solve complex problems in electronics, plant automation, power distribution, and electro-mechanical equipment.

Fluke 289 True-RMS Industrial Data  
Logging Multimeter | Fluke

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Compact true-rms meter for field service technicians. The Fluke 115 field technician's digital multimeter measures True-rms voltage and current with plus resistance, continuity, frequency, and capacitance to meet the needs of a wide variety of field service technicians.

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Fluke 115 True-RMS Digital Multimeter |  
Fluke

Fluke 21 Instruction Sheet 13 pages.

Related Manuals for Fluke 75. Multimeter  
Fluke 77 Calibration Information Manual.

... Fluke 70 and 170 series digital  
multimeter specifications (1 page)

Multimeter Fluke 771 Calibration Manual.

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Milliamp process clamp meter (24 pages)  
Multimeter Fluke ProcessMeter 787 User  
Manual. Processmeter (50 pages ...

FLUKE 75 OPERATOR'S MANUAL Pdf  
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3 Fluke Corporation Fluke 170 Series True-  
rms Digital Multimeters 1 All AC voltage



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and AC current ranges are specified from 5 % of range to 100 % of range. 2 Crest factor of  $\sqrt{3}$  at full scale up to 500 V, decreasing linearly to crest factor  $\sqrt{1.5}$  at 1000 V.

Fluke 170 Series Datasheet - Test  
Equipment Depot

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Introducing the rugged new Fluke 70 Series III Digital Multimeters. Rough handling and high voltage are tough on a meter. But the new Fluke 70 Series III DMMs take it all in stride. They're built tough inside and out. With overvoltage protection to guard against spikes up to 6 kV, and safety ratings to prove it.

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Fluke 70-3 Industrial Multimeter |  
TEquipment

Find Fluke Digital Multimeters Data  
Sheets on GlobalSpec. Industrial  
Multimeter Service Combo Kit --

Fluke-289/IMSK: Fluke has combined its  
advanced data logging Multimeter with

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Trendcapture with the i400 AC Current  
Clamp.

Fluke Digital Multimeters Data Sheets |  
Engineering360

Fluke 87V TRMS Industrial Multimeter.  
The Fluke 87V TRMS Multimeter  
provides the resolution and accuracy to

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efficiently troubleshoot motor drives, plant automation, power distribution, and electromechanical equipment even in loud, high energy, and high altitude locations. This digital multimeter takes the guesswork out of drive system ...

Fluke Multimeter | Fluke 87V MAX

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### TRMS Digital Multimeter ...

Fluke 177 TRMS Digital Multimeter with display backlight delivers the right features for electrical maintenance experts. Independently tested for safe use in CAT IV 600 V/CAT III 1000 V environments. The Fluke 177 TRMS digital multimeter includes all the features you need to

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troubleshoot and repair many problems in electrical and electronic systems.

Fluke 177 TRMS Multimeter | Digital  
Multimeter | Fluke

3 Fluke Corporation Fluke 170 Series True-  
rms Digital Multimeters 1 All AC voltage  
and AC current ranges are specified from

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5 % of range to 100 % of range. 2 Crest factor of  $\sqrt{3}$  at full scale up to 500 V, decreasing linearly to crest factor  $\sqrt{1.5}$  at 1000 V.

Fluke 170 Series True-rms Digital  
Multimeters  
Amprobe® Test Tools



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www.Amprobe.com. Data Sheet. No hassle warranty. No waiting. No shipping charges. Our commitment to high-quality products and customer service is demonstrated by our industry exclusive [No Hassle] warranty.

35XP-A Digital Multimeter Data Sheet

*Page 33/69*

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**TECHNICAL DATA** Fluke 370 FC Series  
True-rms Wireless AC/DC Clamp Meters  
... □ Connect your meter to your  
smartphone using Fluke Connect ... 1.8 m  
(70.8 in) Safety IEC 61010-1, Pollution  
Degree 2 IEC 61010-2-032: CAT III 1000  
V / CAT IV 600 V

# File Type PDF Data Sheet Multimeter Fluke 70 Datasheet Application

Increasing demand for efficiency and power density pushes Si-based devices to some of their inherent material limits, including those related to temperature operation, switching frequency, and blocking voltage. Recently, SiC-based

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power devices are promising candidates for high-power and high-frequency switching applications. Today, SiC MOSFETs are commercially available from several manufacturers. Although technology affiliated with SiC MOSFETs is improving rapidly, many challenges remain, and some of them are investigated

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**Data sheet Application**  
in this work. The research work in this dissertation is divided into the three following parts. Firstly, the static and switching characteristics of the state-of-the-art 1.2 kV planar and double-trench SiC MOSFETs from two different manufacturers are evaluated. The effects of different biasing voltages, DC link

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voltages, and temperatures are analysed. The characterisation results show that the devices exhibit superior switching performances under different operating conditions. Moreover, several aspects of using the SiC MOSFET's body diode in a DC/DC converter are investigated, comparing the body-diodes of planar and

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Double-trench devices. Reverse recovery is evaluated in switching tests considering the case temperature, switching rate, forward current, and applied voltage. Based on the measurement results, the junction temperature is estimated to guarantee safe operation. A simple electro-thermal model is proposed in order to

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estimate the maximum allowed switching frequency based on the thermal design of the SiC devices. Using these results, hard- and soft-switching converters are designed, and devices are characterised as being in continuous operation at a very high switching frequency of 1 MHz. Thereafter, the SiC MOSFETs are



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**Datasheet Application**  
operated in a continuous mode in a 10 kW / 100-250 kHz buck converter, comparing synchronous rectification, the use of the body diode, and the use of an external Schottky diode. Further, the parallel operation of the planar devices is considered. Thus, the paralleling of SiC MOSFETs is investigated before

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comparing the devices in continuous converter operation. In this regard, the impact of the most common mismatch parameters on the static and dynamic current sharing of the transistors is evaluated, showing that paralleling of SiC MOSFETs is feasible. Subsequently, an analytical model of SiC MOSFETs for

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switching loss optimisation is proposed. The analytical model exhibits relatively close agreement with measurement results under different test conditions. The proposed model tracks the oscillation effectively during both turn-on and off transitions. This has been achieved by considering the influence of the most

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crucial parasitic elements in both power and gate loops. In the second part, a comprehensive short-circuit ruggedness evaluation focusing on different failure modes of the planar and double-trench SiC devices is presented. The effects of different biasing voltages, DC link voltages, and gate resistances are

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evaluated. Additionally, the temperature-dependence of the short-circuit capability is evaluated, and the associated failure modes are analysed. Subsequently, the design and test of two different methods for overcurrent protection are proposed. The desaturation technique is applied to the SiC MOSFETs and compared to a

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second method that depends on the stray inductance of the devices. Finally, the benefits of using SiC devices in continuous high-frequency, high-power DC/DC converters is experimentally evaluated. In this regard, a design optimisation of a high-frequency transformer is introduced, and the impact

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of different core materials, conductor designs, and winding arrangements are evaluated. A ZVZCS Phase-Shift Full-Bridge unidirectional DC/DC converter is proposed, using only the parasitic leakage inductance of the transformer.

Experimental results for a 10 kW, (100-250) kHz prototype indicate an

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efficiency of up to 98.1% for the whole converter. Furthermore, an optimized control method is proposed to minimise the circulation current in the isolated bidirectional dual active bridge DC/DC converter, based on a modified dual-phase-shift control method. This control method is also experimentally compared with



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traditional single-phase shift control, yielding a significant improvement in efficiency. The experimental results confirm the theoretical analysis and show that the proposed control can enhance the overall converter efficiency and expand the ZVZCS range. Die steigende Nachfrage nach Effizienz und

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Leistungsdichte bringt Si-basierte Leistungsbauteile an einige inhärente Materialgrenzen, die unter anderem mit der Temperaturbelastung, der Schaltfrequenz und der Blockierspannung in Zusammenhang stehen. In jüngster Zeit sind SiC-basierte Leistungsbaulemente vielversprechende Kandidaten für

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## Hochleistungs- und Application

Hochfrequenzanwendungen. Aktuell sind SiC-MOSFETs von mehreren Herstellern im Handel erhältlich. Obwohl sich die Technologie der SiC-MOSFETs rasch verbessert, werden viele Herausforderungen bestehen bleiben. Einige dieser Herausforderungen werden

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in dieser Arbeit untersucht. Die Untersuchungen in dieser Dissertation gliedern sich in die drei folgenden Teile: Im ersten Teil erfolgt, die statische und die transiente Charakterisierung der aktuellen 1,2 kV Planarund Doubletrench SiC-MOSFETs verschiedener Hersteller. Die Auswirkungen unterschiedlicher

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## Gatespannungen, Application

Zwischenkreisspannungen und Temperaturen werden analysiert. Die Ergebnisse der Charakterisierung zeigen, dass die Bauteile überlegene Schaltleistungen unter verschiedenen Betriebsbedingungen aufweisen. Darüber hinaus wird der Einsatz der internen SiC-

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Bodydioden in einem DC/DC-Wandler untersucht, wobei die Unterschiede zwischen Planar- und Doppeltrench-Bauteilen aufgezeigt werden. Das Reverse-Recovery-Verhalten wird unter Berücksichtigung der Gehäusetemperatur, der Schaltgeschwindigkeit, des Durchlassstroms und der angelegten

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Spannung bewertet. Anhand der Messergebnisse wird die Sperrschichttemperatur geschätzt, damit ein sicherer Betrieb gewährleistet ist. Ein einfaches elektrothermisches Modell wird vorgestellt, um die maximal zulässige Schaltfrequenz auf der Grundlage des thermischen Designs der SiC-Bauteile

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abzuschätzen. Anhand dieser Ergebnisse werden hart- und weichschaltende Umrichter konzipiert und die Bauteile werden im Dauerbetrieb mit einer sehr hohen Schaltfrequenz von 1 MHz untersucht. Danach werden die SiC-MOSFETs im Dauerbetrieb in einem 10 kW / 100-250 kHz-Tiefsetzsteller



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betrieben. Dabei wird die Synchrongleichrichtung, die Verwendung der internen Diode und die Verwendung einer externen Schottky-Diode verglichen. Außerdem wird die Parallelisierung von SiC-MOSFETs untersucht, bevor die Parallelschaltung der verschiedenen Bauelemente ebenso im kontinuierlichen

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Konverterbetrieb verglichen wird. Es wird der Einfluss der häufigsten Parametervariationen auf die statische und dynamische Stromaufteilung der Transistoren analysiert, was zeigt, dass eine Parallelisierung von SiC-MOSFETs möglich ist. Anschließend wird ein analytisches Modell der SiC-MOSFETs

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## Data Sheet Application zur Schaltverlustoptimierung

vorgeschlagen. Das analytische Modell zeigt eine relativ enge Übereinstimmung mit den Messergebnissen unter verschiedenen Testbedingungen. Das vorgeschlagene Modell bildet die Schwingungen sowohl beim Ein- als auch beim Ausschalten effektiv nach. Dies

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Das Handbuch berücksichtigt die Berücksichtigung der wichtigsten parasitären Elemente in Strom- und Gatekreisen erreicht. Im zweiten Teil wird eine umfassende Bewertung der Kurzschlussfestigkeit mit Fokus auf verschiedene Ausfallmodi der planaren und double-trench SiC-Bauelemente vorgestellt. Die

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Auswirkungen unterschiedlicher

Gatespannungen,

Zwischenkreisspannungen und Gate-

Widerstände werden ausgewertet.

Zusätzlich wird die temperaturabhängige

Kurzschlussfähigkeit ausgewertet und die

zugehörigen Fehlerfälle werden analysiert.

Anschließend wird die Auslegung und

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Prüfung von zwei verschiedenen Verfahren zum Überstromschutz evaluiert. Die "Desaturation"-Technik wird auf SiC-MOSFETs angewendet und mit einer zweiten Methode verglichen, welche die parasitäre Induktivität der Bauelemente nutzt. Schließlich wird der Nutzen des Einsatzes von SiC-Bauteilen in

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**Continuously High-Frequency-  
High-Power-DC/DC-Converters  
experimentally investigated. In this  
context a design optimization of a  
high-frequency transformer is presented  
and the influence of various  
core materials, lead-out configurations and**

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Wicklungsanordnungen wird bewertet. Es wird ein unidirektionaler ZVZCS Vollbrücken-DC/DC-Wandler vorgestellt, der nur die parasitäre Streuinduktivität des Transformators verwendet. Experimentelle Ergebnisse für einen 10 kW, (100-250) kHz Prototyp zeigen einen Wirkungsgrad von bis zu 98,1% für den gesamten



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Umrichter. Abschließend wird ein optimiertes Regelverfahren verwendet, welches auf einem modifizierten Dual-Phase-Shift-Regelverfahren basiert, um den Kreisstrom im isolierten bidirektionalen Dual-Aktiv-Brücken-DC/DC-Wandler zu minimieren. Diese Regelmethode wird experimentell mit der

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herkömmlichen Single-Phase-Shift-Regelung verglichen. Hierbei zeigt sich eine deutliche Effizienzsteigerung durch die neue Regelmethode. Die experimentellen Ergebnisse bestätigen die theoretische Analyse und zeigen, dass die vorgeschlagene Regelung den Gesamtwirkungsgrad des Umrichters

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erhöhen und den ZVZCS-Bereich  
erweitern kann.

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*Page 69/69*