vokogawa
 DL1700E Series

DL1720E/DL1735E/DL1740E/DL1740EL

Digital Oscilloscopes



DL1740EL

- Up to 1 GS/s, 8 MW Memory
- 350MHz Analog Bandwidth : DL1735E
- 500MHz Analog Bandwidth : DL1720E, DL1740E, DL1740EL
- PC Card Interface
- USB Storage
- I²C & SPI Bus Trigger and Analysis









A4 size footprint

Compact, space-saving form with

350MHz and 500MHz bandwidth and Max.8MW memory





High Performance at a great price

- Maximum Sampling Rate 1GS/s: Real-time sampling 100GS/s: Repetitive sampling
- Bandwidth
 350MHz : DL1735E
 500MHz : DL1720E, DL1740E, DL1740EL
- Maximum Record Length DL1740EL: 8 Mwords (8 times longer 1) DL1735E, DL1740E: 2 Mwords (2 times longer 1) DL1720E: 1 Mword
 - 1. When compared with the previous model of the DL1740



Various supporting functions for your measurements

- PC Card Interface (Type II) (or select floppy disk for removable media type)
- USB Storage and USB Peripherals
 Supports USB memory devices (flash memory, hard disk drive, MO drive, etc.)
 Supports a USB mouse, keyboard, or printer
- Built-In Printer (Optional)
- Ethernet Function (Optional)
 - Web Server, FTP server, and network printing

Special functions for specific applications

I²C and SPI Bus Trigger and Analysis (Optional)
 HDTV Trigger

DL1700E Series Lineup

Model	DL1720E	DL1735E	DL1740E	DL1740EL
Item	701715	701725	701730	701740
Analog input channels	2	4	4	4
Max. Sampling rate	1GS/s			
Bandwidth	500MHz	350MHz	500MHz	500MHz
Max. Record length	1MW/ch	2MW/ch	2MW/ch	8MW/ch



The DL1700E series with the ¹2 C analysis function are officially accredited for HDMI*¹ compliance testing(DDC*² protocol analysis).



Easily and Accurately Capture Increasingly Complex Signals

Accurately Capture and Observe Waveforms with the 8 Mword Long Memory and Easy Zoom Function

Even some oscilloscopes with high sampling rates may not be able to accurately capture waveforms if the memory size is not large enough for the required monitoring period. This limitation is due to the necessary drop in sampling rate, which occurs if the recording memory is not long enough. A larger recording memory not only increases the monitoring time, but also enables users to maintain a high sampling rate thus ensuring accurate waveform representation. In addition, the zoom function can be used to simultaneously view enlarged images on one or two segments of a waveform captured in the large memory.





All-Points Display and Fast Screen Updates Make Sure You Won't Miss Abnormal Signals

When working with data captured in the large recording memory, the amount of information appearing on the display varies greatly depending on how the data are presented. The differences occur depending on whether you choose to display all points in a captured waveform, or just major values, such as maximum and minimum values, in a given segment on the waveform. The DL1700E Series provides fast screen updating in all-points display mode, so you won't miss abnormal phenomena or have slow responses to instrument controls.





Easily Find and Display Desired Date from Large Amounts of Data

Smart Search Function for Effective Access to the Data You Need

"I want to find the serial data with a particular serial pattern", "I need to search for surge pulses of less than 30 ns", "I want to only extract waveforms that occasionally overshoot by an excessive amount"......As data volume increases, it becomes more important to be able to search for target phenomena efficiently. The Smart Search function automatically detects serial patterns, pulse widths, rising edges, falling edges, and other phenomena in the captured waveform data. These phenomena are then displayed in the zoom screen. Smart Search will significantly improve the efficiency of your development and evaluation work.





When an abnormal signal is displayed on the screen, does it disappear before you can press the STOP key?

History Memory

The history memory function divides the large recording memory into a number of blocks and automatically saves up to 2048 previously captured waveforms. Increase the number of screens saved to history memory by setting a shorter record length.



History Search

The history search function is useful for quickly finding abnormal waveforms in the large amounts of waveform data stored in history memory. This function lets you automatically search for desired waveforms based on whether or not a signal passes through a user-defined area on the screen. You can also conduct searches based on waveform parameters.



History Statistics

Calculates statistical information based on the parameter values for waveforms stored in history memory. This function calculates and displays a parameter's maximum value, minimum value, average value, and standard deviation. You can check the parameters for every waveform in history memory.



A Variety of Functions Offer the Best Solutions for Diverse Measurement Needs

Measuring Periodically Fluctuating Amplitudes





Automatically calculates the maximum value, minimum value, average value, and standard deviation of selected waveform parameters for each period of a signal. You can even find the period corresponding to the calculated maximum and minimum values and display that period in the zoom window. In some applications, like with a PWM (pulse width

modulation) control signal, you may need to determine information about each waveform period for long amounts of time. The DL1700E Series with its long memory, lets you analyze a long waveform, periodby-period, based on the period of a reference signal.

Envelope and Roll modes for simultaneously observing both slow and fast signals

Envelope mode always captures signals at the highest sampling rate, irrespective of the time-axis setting. This mode is effective when observing high-frequency noise superposed on a slow signal. Roll mode allows you to observe signals on the screen in much the same way as you record them on a chart recorder. When in normal mode, you can set the sampling rate as high as 2 MS/s for roll mode. In addition, you can have a roll-mode view of signals in the envelope mode.



in a waveform?



Automatically counts the number of

between cursors. The threshold level

pulses in the waveform data

for recognizing a single pulse is

user-definable, so you can reliably

unstable levels. With the DL1700E

manually count pulses on screen or

Series, you'll never again have to

on a stack of printouts.

compute pulses even in signals with

Roll-mode View in Normal Mode

Roll-mode View in Envelope M

Simple and Enhanced Triggers for Reliable Capturing of a Variety of Waveforms

	Simple	and Enhanced Triggers
	Edge	Triggers on a rising or falling edge.
	A→B(N)	Triggers on the n-th occurance of condition B after condition A has gone true.
ACTION DELAY	A Delay B	Triggers if condition B goes true after condition A has gone true and an interval at least equal to the delay setting has elapsed.
	Pattern	Triggers when the state conditions (H or L) on multiple channels goes true and a channel edge condition is met. A clock setting can also be set.
→	Width	Triggers when a comparison of the input pulse width and a specified time width satisfies a condition. (Pulse > Time, Pulse < Time, T1 < Pulse < T2, Time Out)
→	OR	Triggers when any trigger condition on multiple channels goes true. The OR trigger may also be combined with a window trigger.
	тv	NTSC, PAL, SECAM, HDTV (8 types)
	I ² C	Triggers on specified I ² C bus signal conditions (optional)
L	SPI	Triggers on specified SPI bus signal conditions (optional)

GO/NO GO Judgment — Automatic Waveform Discrimination -

How can I quickly count a large number of pulses

Pulse Count



Select zones or parameters for the waveform of an acquired signal. The DL1700E judges the signal being measured and automatically takes action. Actions you can choose from include: outputting screen images data to the destination specified in the Copy Setup menu, saving waveform data in the medium specified in the File menu, sounding the buzzer, and sending e-mail.

Action-On Trigger

With the action-on trigger, a specified action is automatically executed each time the trigger is activated. You can use the trigger for a variety of actions, such as automatically saving captured data. The action-on trigger is useful for purposes such as collecting data in continuous tests.

Dedicated I²C Bus Trigger and Analysis Function (Optional)

I²C bus signals (SCL and SDA) used extensively in home electronics such as televisions and video cameras and in communications equipment such as mobile phones can be captured with specialized triggers, analyzed, and displayed as waveforms.

I²C Bus Analysis Function

Triggers can be activated using conditions such as Start, Non-Ack, Address pattern, and Data pattern. These dedicated I²C bus triggers can also be combined with other analog signals to activate additional triggers.

04/25 21:36 51- nua 44 E2C Adroditeta Setty	PH NOTINA 595-13 2001084
C Trigger Type pirchlata iku-nCi	2,00 0,41s (C 741)
there Parnet. Res 101	2.00 9.10
	IC Pull
address Pattern (2-bit address, 6/8)	
3.00	
Ba attern Consistion True	-Citone
Byte Count _ 21	
Bata2 Pattern Gestition True	12C Brs
Bata Byte 21 byte	HETHI
1142 A124	
After Byte Count First Byte (replare)	Divector Store 120. Setur

I²C bus trigger setup menu

I²C Bus Analysis Function

Captured waveforms can be analyzed in a time series manner, and the analysis results displayed in a list. When an analysis result is

selected with the cursor, the corresponding waveform is automatically enlarged in the zoom area. Two pairs of I²C busses can be input at the same time, then analysis can be performed alternately on either bus



I²C bus analysis results



Dedicated SPI Bus Trigger and Analysis Function (Optional)

The SPI data bus is a synchronous 8-bit serial bus used widely for inter-IC and data communications in embedded systems. SPI bus signals can be captured using the DL1700E dedicated triggers and the waveforms can be analyzed and displayed on the screen.

SPI Bus Trigger Function

SPI Bus Analysis Function

Triggers can be activated by comparing each byte of MOSI (master output slave input) and MISO (master input slave output) data with specified conditions. You can trigger on user-defined strings of data from 1 to 8 bytes long.

Data analysis results and SS (slave select) bits can be displayed in a list together with the waveforms. You can perform a high speed search for a specified MOSI or MISO data pattern (of 1 to 8 bytes) from within all of the captured data.

Clack(CHL)	50055-13 2000e80e Hp. 31 H2 C2 -10 C2 7C H
Hysteressa B.Miscal	-9 11 12 -9 11 -9 11 12 -9 111
Pilarity Jack	-6 73 30
Brta De ligger De Lover	-5 E B -4 6 51 -3 73 8 -2 55 B
🗃 MG2000 📃 2.29 V 🚺 1.29 V	
CICIS) OR (8 0H Level 2.019)	27 AAAAAAA 27 AAAAAAAAAAAAAAAAAAAAAAAAA
Dakie State 🚺	A SI TE
Reference Point R Trigger Position	5 ai 17 i
E Rarmal 0.000068+	Pizzakot
Rit Order (158 First) Lill First)	ta Search King PO List p: 21 Ras

SPI bus analysis setting screen

Connection with a Wide Range of Peripherals such as PC, Printer

USB

Peripheral Device

Connections

Web Server

With an Ethernet connection, you can perform various functions using Internet Explorer.

Ethernet

• FTP

 USB compatible flash memory, hard drives, or MO drives can be connected to easily save waveform data and screen images.
 The DL1700E Series can be completely

- The DL1700E Series can be completely controlled using a USB mouse.
 File names can be entered using a USB
- keyboard.
- Connect a USB printer for color printouts.



PC Connection

 You can create a PC program to remotely control the DL1700E via USB. This is similar to how you would control operations via GP-IB. Easily copy and paste files from the DL1700E's internal storage devices to connected PC or network drive. The internal storage device functions as one of your PC file servers.

Data Capture

Perform actions such as waveform monitoring, uploading settings, and starting/stopping measurements.

Measurement Trend

Automatically opens Excel, then periodically downloads waveform parameter values and graphs them. Easily monitor parameter trends during extended-period measurements.

Printing on a Network
 Printer
 The screen image can be printed

By simply pressing IMAGE SAVE key, you can

PC card

easily and quickly save screen image data to the

on a network printer in the same way as you would print to the internal printer or a USB printer.



USB hard disk

Easily and Quickly Output Images and Data to a Variety of Devices

The COPY key lets you print screenshots to the built-in printer, a USB printer, or a network printer.

Rear Panel



Software

Xviewer (701992)



Xviewer is a PC software application designed to work with Yokogawa's DL series digital oscilloscopes and the DL750 series ScopeCorders. Xviewer allows you to display DLacquired waveform data (using the "Viewer" function), perform file transfers, and control DL series instruments remotely.

You can download a trial version of Xviewer from YOKOGAWA's web site at: http://www.yokogawa.com/tm/701992/

MATLAB tool kit (701991)



The MATLAB tool kit for the DL series is a plug-in for MATALAB software. The toolkit can be used to control supported DL series instruments using MATLAB or to acquire data from a DL series instrument for use in MATLAB via a communication interface (GP-IB, USB, Ethernet).

You can download a trial version of MATLAB tool kit from YOKOGAWA's web site at: http://www.yokogawa.com/tm/701991/

Accessories





Main Specifications

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Basic Specifications	
Input channels Input coupling Input impedance	4 (701725, 701730, 701740) 2 (701715) AC 1 MΩ, DC 1 MΩ, DC 50 Ω, GND 1 MΩ±1.0%, 50 Ω±1.0%
Voltage axis sensitivity set	
Maximum input voltage	For 1 M Ω input (frequency of 1 kHz or less): 400 V (DC + ACpeak)(282 Vrms CAT II) For 50 Ω input: 5 Vrms or 10 Vpeak (and neither are
Frequency characteristics ¹	exceeded) 701715,701730,701740 For 1 MΩ input
	(using passive probe model 700988; specified at probe tip): 10 V/div to 10 mV/div: DC to 400 MHz (500 MHz ⁴) 5 mV/div to 2 mV/div: DC to 300 MHz (400 MHz ⁴)
	For 50 Ω input: 1 V/div to 10 mV/div: DC to 500 MHz 5 mV/div to 2 mV/div: DC to 400 MHz 701725
	For 1 MΩ input (using passive probe model 700988; specified at probe tip): 10 V/div to 10 mV/div: DC to 350 MHz (350 MHz ⁴) 5 mV/div to 2 mV/div: DC to 250 MHz (250 MHz ⁴)
	For 50 Ω input: 1 V/div to 10 mV/div: DC to 350 MHz
A/D conversion resolution Maximum sampling rate	5 mV/div to 2 mV/div: DC to 250 MHz 8 bits (24 LSB/div) Real-time sampling mode
	Interleave mode ON: 1 GS/s ² Interleave mode OFF: 500 MS/s Repetitive sampling mode: 100 GS/s
Maximum record length	701715 Interleave mode ON: 1 MW/CH ²
	Interleave mode OFF: 500 kW/CH 701725,701730 Interleave mode ON: 2 MW/CH ²
	Interleave mode ON: 2 MW/CH Interleave mode OFF: 1 MW/CH 701740
	Interleave mode ON: 8 MW/CH ² Interleave mode OFF: 4 MW/CH
DC accuracy ¹ Offset voltage axis accurac	±(1.5% of 8 div + offset voltage accuracy) y ¹ 2 mV/div to 50 mV/div: ±(1% of setting + 0.2 mV)
	100 mV/div to 500 mV/div: ±(1% of setting +2 mV) 1 V/div to 10 V/div: ±(1% of setting + 20 mV)
Time axis setting range	1 ns/div to 50 s/div (for record length of 10 kW or greater) 1 ns/div to 5 s/div (for record length of 1 kW) ±0.005%
External clock input	Input frequency range: 40 Hz to 20 MHz (continuous clock signal only)
Trigger	
Trigger modes Trigger source	Auto, Auto Level, Normal, Single, Single (N) CH1 to CH4 (or CH1 to CH2 for the 701715), LINE (connected commercial power signal), EXT (signal input from
Trigger types	the EXT TRIG IN terminal) Edge, A->B(N), A Delay B, OR, Pattern, Pulse width, TV, I ² C (optional), SPI (optional)
Display	
Screen updating rate Display	Maximum 60 times per second (for 10 kW all-points display) Maximum 30 times per second (for 1 MW all-points display) 6.4-inch color TFT liquid crystal display
	some pixels which always glow or never glow or may have uneven brightness e are not indications of an equipment problem.
Functions	
Vertical/Horizontal Axis Input filter	Band limit of 100 MHz or 20 MHz can be set independently on each channel (CH1 to CH4, or CH1 to CH2 for the
Roll mode	701715) The roll display mode is enabled when the trigger mode is auto, auto level, or single and the time axis is as follows: For record lengths of 1 MW or less: 50 ms/div-50 s/div
	(or 50 ms/div-50 s/div in the case of 1 kW only) For a record length of 2 MW: 100 ms/div-50 s/div For a record length of 4 MW: 200 ms/div-50 s/div
• Waveform Acquisition/Di	
Acquisition modes Zoom	Normal, Envelope, Averaging, Box Average Zoom in on displayed waveforms along the time axis (one or two zoom windows with separate enlargement ratios)
K-Y display	Two X-Y waveform displays are available, XY1 and XY2 (only XY1 is available on the 701715).
Analysis Function Search and Zoom function	Edge, serial pattern, parallel pattern, pulse width, auto scroll, l ² C (optional) SPI (optional)
History search functions Cursor measurements Automatic Measurement of	I ^c C (optional), SPI (optional) Zone, parameter Horizontal, Vertical, Marker, Degree, H&V [Waveform Parameters Function
	P-P, Max, Min, Avg, Rms, Sdev, High, Low, +OShot, -OShot, Int1TY, Int2TY, Int2XY, Int2XY, Freq, Period, Rise, Fall, +Width, -Width, Duty, Burst1, Burst2, Pulse, AvgFreq, AvgPeriod,
	Delay (between channels) Also, the following statistical processes can be performed Source items: The above parameters
	Statistics: Min, Max, Avg, Cnt, Sdv Statistical mode: Normal, Cycle, History
	The specifications can be viewed at the follow

Computation Functions	+, -, x, binary computation, inversion, differentiation,
GO/NO-GO judgment	integration, power spectrum (FFT) Evaluation based on automatically measured waveform parameter values and waveform zones
• Output Screen Image Dat Built-in printer (optional)	Paper width: 112 mm
External printer	Output formats: Normal, Long Outputs to an external printer via the USB PERIPHERAL terminal or Ethernet ³ . Supports the following printer formats: ESC/P, ESC/P2,
Floppy disk / PC card / Net	ESC/PR ⁵ , LIPS3, PCL5, BJ, PostScript (via Ethernet only ³) work Drive (via Ethernet ³ / USB Storage Output data formats: PostScript, TIFF, BMP, JPEG, PNG
I ² C Bus Analysis Function	(Option for the DL1735E, DL1740E and DL1740EL)
• Applicable Bus I ² C bus	Bus transfer rate: Up to 3.4 Mbit/s
	Address mode: 7 bit
SM bus • Trigger Function	System Management Bus compliant
Trigger source	CH1: SCL
	CH2: SDA CH3, CH4: Analog signal input
Start Condition	Triggers on Start conditions
Address Data 1	Trigger on user-defined address Triggers on user-defined data byte immediately after address
Byte Count	Up to 9,999 can be specified
Data 2	Triggers on user-defined date byte after byte count has elapsed, up to 2 bytes can be specified
Non-ACK trigger Combination trigger	Triggers when no acknowledgment is given Analog signals on CH3 and CH4 can be combined with the I ² C bus trigger.
 Analysis Functions 	
Waveform & data display Detailed data display	Simultaneous display of data (hex display) and waveforms Time from a reference point, data (simultaneous display in binary and hex), and presence or absence of ACK
Number of analyzable data Analysis channels	
SPI Bus Analysis Function	n (Option for the DL1735E, DL1740E and DL1740EL)
Trigger Functions	
Trigger source	CH1: SCK CH2: MOSI CH3: MISO
Assertion of SS A Pattern	CH4: SS Triggers on SS assertion Triggers on user-defined MOSI data directly after SS
Byte Count B Pattern	assertion, up to 8 bytes can be specified Up to 1,000 times can be specified Triggers on user-defined data after byte count has elapsed, up to 8 bytes can be procified
• Analysis Function Waveform & data display Detailed data display	up to 8 bytes can be specified Simultaneous display of data (hex display) and waveforms Time from a reference point, data (binary or hex), and CS
Number of analyzable data Analysis channels	signal condition
	CH2: Data1 (MOS) CH3: Data2 (MISO) CH4: CS signal (SS)
Rear Panel I/O Section	
USB PERIPHERAL	Compliant with USB Rev. 1.1
Interface	Accepts a USB compatible flash memory device, hard drive,
Computer interface	MO drive, mouse, keyboard, or printer. GP-IB, USB-PC connector (USB Rev 1.1 compliant), Etherne
Signal I/O	(100BASE-TX/10BASE-T compliant, optional) External trigger input/external clock input/trigger gate input, trigger output, RGB video signal output (VGA), GO/NO-GO
Probe power terminal (optic	output onal)
	No. of terminals: 4 (701725, 701730, 701740) 2 (701715) Output voltage: ±12 V
General Specifications	
Rated supply voltage Rated supply frequency Maximum power consumpti	100-120 VAC/220-240VAC (switches automatically) 50/60 Hz ion
External dimensions	200 VA 220 mm (W) \times 265.8 mm (H) \times 264.1 mm (D) (when the printer cover is closed; does not include handle
Weight	and protrusions) Approximately 5.5 kg (with all options)
Operating temperature range	Approximately 5.4 kg (without options) 95-40°C
1:Measured value under standard	operating conditions (below) after warming up the instrument, performing
calibration, and setting the time Standard operating conditions	base to internal clock. Ambient temperature: 23 ±2°C
	Ambient humidity: Humidity: 55 ±10% RH ne number of available channels is reduced by half.

The specifications can be viewed at the following URL. http://www.yokogawa.com/tm/DL1700E/

DL1720E, DL1735E, DL1740E, DL1740EL Model Number and Suffix Codes

Model	Suffix Co	de Description	
701715		DL1720E digital oscilloscope with 2 ch input, 500MHz analog bandwidth and maximum 1 MW memory	
701725		DL1735E digital oscilloscope with 4 ch input, 350MHz analog bandwidth and maximum 2 MW memory	
701730		DL1740E digital oscilloscope with 4 ch input 500MHz analog bandwidth and maximum 2 MW memory	
701740		DL1740EL digital oscilloscope with 4 ch input 500MHz analog bandwidth and maximum 8 MW memory	
Power cable	-D	UL and CSA standard	
	-F	VDE standard	
	-Q	BS standard	
	-R	AS standard	
	-H	GB standard	
Internal	-J1	Floppy disk drive ¹	
storage drive	-J3	PC card interface (type II) ¹	
Options	/B5	Built-in printer	
	/P2	Probe power for model 701715 ²	
	/P4	Probe power for models 701725, 701730 and 701740 ²	
/C10		Ethernet interface	
	/F5	I ² C + SPI bus analysis function ³	
	/E	X2 Attach two 701941 probes ⁴	
	/E	X4 Attach four 701941 probes ⁵	

The instrument comes standard with passive probes (700988). Four probes are included with the 701730 and 701740, and two probes are included with the 701715.

1. One or the other must be selected 2. Select /P2 for model 701715, or /P4 for models 701725, 701730 and 701740.

 Option for model 701725, 701730 and 701740 only.
 Option for model 7017155, 701730 and 701740 only.
 Option for model 701715 only. The 700988 probes are not included when this option is specified.

5. Option for models 701725, 701730, 701740 only. The 700988 probes are not included when this option is specified

Standard Accessories

Name	Quantity
Power cable	1
Passive probe (700988)	1 per channel
Power fuse	1
Front cover (transparent type)	1
Soft case for probe	1
Printer roll paper (when the /B5 option is specified)	1
User's manual (one set)	1

Supplies

Name	Part number	Description	Order Quantity
Printer roll paper	B9850NX	30 meter roll (1 roll per package)	5
Passive probe	700988	10 MΩ (10:1), 400 MHz band,1.5 m (1 probe per package)	1
Front cover	B9989FA	LCD, protects front panel	1

Related Products



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Yokogawa's Approach to Preserving the Global Environment Yokogawa's electrical products are developed and produced in facilities that

- have received ISO14001 approval. In order to protect the global environment, Yokogawa's electrical products are
- designed in accordance with Yokogawa's Environmentally Friendly Product Design Guidelines and Product Design Assessment Criteria.

NOTICE

- Before operating the product, read the user's manual thoroughly for proper and safe operation.
- If this product is for use with a system requiring safeguards that directly involve personnel safety, please contact the Yokogawa sales offices.



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Current probe	701930	DC to 10 MHz, 150 Arms
Current probe	701931	DC to 2 MHz, 500 Arms
Differential probe	700925	DC to 15 MHz
Differential probe	700924	DC to 100 MHz
Differential probe	701921	DC to 100 MHz
Differential probe	701922	DC to 200 MHz
Differential probe	701920	DC to 500 MHz
Miniature passive probe	701941	DC–500MHz bandwidth
Miniature passive probe	701942	10:1, 350 MHz, 3 m
100:1 probe	701944	100:1, 400 MHz, 1.2 m
100:1 probe	701945	100:1, 250 MHz, 3 m
Probe Stand	701919	Circular Base, with a flexible arm
Soft Carrying Case	701964	Three pockets are provided.
Hard Carrying Case	701950	Hard type Carrying Case

Model

700939

701933

701932

Description

DC to 50 MHz, 30 Arms

DC to 100 MHz, 30 Arms

900 MHz

Note: Please see the Bulletin 7009-63E (DL series Accessories) for details.

Exterior Dimensions

Accessories (Optional) Name

FET probe

Current probe

Current probe



Signal<mark>Exp</mark>