D3286 Specifications Operating Frequency		Error Measurement Mode:	3 groups can be selected, within each group three types of measurements can be done simultaneously, and one type	
Operating Frequency Rang	e: 150 MHz to 12 GHz		displayed	
	150 MHz to 12.5 GHz (Option 72)	Omission/Insertion Group		
		OMISSION:	Displays the measured value of errors of	
Measuring Functions			the sort when logical data value of '0' is	
Reference Measuring Funct	tions:		input when '1' is the expected value	
	Simultaneous measurement of 6 functions, 1 function can be selected for display	INSERTION:	Displays the measured value of errors of the sort when logical data value of '1' is input when '0' is the expected value	
	Error rate measurement	TOTAL:	Displays the measured value of the sum	
	Error count measurement Error interval (EI) measurement Error free interval (EFI) measurement		of OMISSION and INSERTION type errors (all errors).	
	Frequency measurement	Overhead/Payload Group		
	Frame count measurement:	Can only be selected when the patt	ern mode is FRAME	
	Frame count measurement can only be	OVERHEAD:	Displays the measured value of errors in	
	done when the pattern mode is FRAME,		the overhead part.	
	the payload format is WORD or PRBS,	PAYLOAD:	Displays the measured value of errors in	
	and the measuring time mode is FRAME		the payload part.	
	TIME (FR. TIME) or FRAME	ALL:	Displays the measured value of sum of	
	INTERVAL (FR. INTV)		the errors in the overhead part and	
Display Format:	Synchronous measurement		payload part (all frame errors).	
Error rate measurement (1	Error rate measurement (1 type fixed)		Specific field group	
Exponential format:	Displays the number of error bits per	Can only be selected when the patt	ern mode is WORD or FRAME	
	number of input bits	SPECIFIC FIELD:	Displays the measured value of errors	
	Up to 5 digit mantissa + exponent		within a specified specific field.	
	2 types, 1 type can be selected for	OTHER FIELD:	Displays the measured value of errors	
display)			within the fields other than the specified	
Exponential format:	Displays the number of error bits in		specific field.	
	exponential format	ALL:	Displays the measured value of the sum	
T	Up to 5 digit mantissa + exponent		of the errors in the specific field and the	
Integer format:	Displays the lowest 8 digits of the	Michael Desults Display	other fields (all pattern errors)	
Error interval measurement	number of error bits as an integer	Midway Results Display: Threshold EF/EFI Measureme	ON/OFF selectable	
for display)	t (2 types, 1 type can be selected	Threshold Er/Eri Measureine	Measured results can only be given as	
% format:	Displays the number of error intervals		printer output and file record Measures	
/o format.	per number of measured intervals as a		simultaneously with the reference	
	fixed decimal point percentage		measurement function	
	Up to 3 digit integer part + 4 digit	Error Performance Measurem	nent:	
	decimal part		Measured results can only be given as	
Number of interval format:	Display the number of error intervals in		printer output and file record	
	exponential format		Measurement items (the 5 items below	
	Up to 5 digit mantissa + exponent		are measured simultaneously with the	
Error free interval (EFI) measurement (2 types, 1 type can be			reference measurement function)	
selected for display)			ES:Errored Seconds	
% format:	Displays the number of error free		EFS: Error Free Seconds	
	intervals as a fixed decimal point		SES: Severely Errored Seconds	
	percentage Up to 3 digit integer part + 4 digit		US:Unavailable Seconds DM:Degraded Minutes	
	decimal part	Measurement Control	Divi.Degraded Willings	
Number of interval format:	Displays the number of error free	START:	Starts simultaneous measurement of all	
i vanibui or intui vai iUlillat.	intervals in exponential format	STINUI.	measuring functions, or measurement	
	Up to 5 digit mantissa + exponent		interrupt and re-start. Can be done with	
Frequency measurement (1			front panel keys, GPIB or external gate	
Fixed decimal point:	Displays the frequency of the input clock		input signal.	
F	in MHz units in fixed decimal point	STOP:	Stops simultaneous measurement of all	
	format		measuring functions. Can be operated	
	Up to 5 digit integer part + 3 digit		through front panel keys, GPIB built-in	
	decimal part		timer, or external gate input signal.	
Number of frames measure			_	
Exponent format:	Converts the number of input bits to a			
	number of frames and displays this			
	number			
	Up to 5 digit mantissa + exponent			

number of frame units and measuring period is set in day/hour/minute/second units.Thresho units.FR. INTV:Can only be selected when pattern mode is FRAME. Measuring interval is set in number of frame units and measuring period is set in number of measuring interval units.Termin Input in Second frame the pattern synchronization is established during the period from measuring start to measuring end, only the area set by the burst timer is measured.Termin Input in PolarityMask Function:Can only be selected when pattern mode is WORD or FRAME. Synchronization and measurement are done ignoring errors in the specified matk field.Input a Connec Input w Auto Consec Input w Auto synchronization:ON/OFF selectable ON/OFF selectableAuto Auto Consec Input w Connec Input w Auto Sec OFF during PRBS.Clock s Consec Input w Control Consec Input w Consec Input w Consec Input w Consec Input w Auto Sec OFF during PRBS.Clock s Consec Input w Consec Input w Consec Input w Consec Input w Consec Input w Measurement Conditions Display Lamp GATE: CLOCK error:Clight sduring measurement results overflow.Clock s Signal for Consec Input w Consec Consec Input w Consect when normal clock is input.Load in Consec Consec Signal for Output Month Rescord Under Stars Signal for Consec Synchronization error.Clock s Signal for Consec Consec Signal for Consec Consec Consec Synchronization error.Clock s Signal for Consec Consec Consec Consec Synchronization error.Clock s Signal for Consec Consec <br< th=""><th>surement Input</th><th></th></br<>	surement Input	
day/hour/minute/scond units. Code: FR. TIME: Can only be selected when pattern mode is FRAME. Measuring interval is set in number of frame units and measuring period is set in day/hour/minute/second units. Input a FR. INTV: Can only be selected when pattern mode is FRAME. Measuring interval is set in number of frame units and measuring period is set in number of measuring interval units. Termin Input in the set in number of measuring period is set in number of measuring end, only the area set by the burst time is measured. Termin Input in UV raibbi UV raibbi UV raibbi Source of the set of the set of the set of the set of the area set by the burst time is measured. To any Variabbi Input in the area set by the burst time is synchronization and measurement are done ignoring errors in the specified mask field. Input a Input a Auto synchronization: ON/OFF selectable Autors Auto synchronization: ON/OFF selectable Autors Auto synchronization: Can be turned ON or OFF when pattern mode is FAME or WORD. Set OFF during PRBS. Clock is Trigger Frame synchronization: Command can be given using front panel keys or CPIB. Contex Command can be given using front panel keys or CPIB. Measurement Conditions Display Lamp GATE: Lights when a 1 or more bit error is oces out when nerror is no longer detected. Load in Connec Connec connec SYNC error: Lights when the input clock fails or frequency is too low. Goes out when nerror is no longer detected.		DC termination, DC coupling
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mask field.ConnecPattern SynchronizationON/OFF selectableHatto Synchronization:Auto synchronization:ON/OFF selectableAutomaWhen ON, re-synchronization is done automatically when the error rate is equal to or greater than the prescribed value.TriggeFrame synchronization:Can be turned ON or OFF when pattern is searched and high speed pattern synchronization is done.Clock sRe-synchronization:Command can be given using front panel keys or GPIB.OutputMeasurement Conditions Display Lamp GATE:Lights during measurement.Load in Connec overflow.Error Alarm Display Lamp DATA error:Lights when a 1 or more bit error is detected.Auxili Monit detected.Auxili Monit ConnecCLOCK error:Lights when her input clock fails or frequency is too low. Goes out when normal clock is input.Load in ConnecSYNC error:Lights sher power is restored after a power failure. Stays lit until the next measurement stars.Connec Code: OutputPOWER fail:Lights when there is a pattern synchronization error. After the error is recovered. Lights until the next measurement stars.Code: Connec StretchSYNC error:Lights when there is a pattern synchronization error. After the error is recovered. Lights until the next measurement starts.Load in Connec StretchSYNC error:Lights when there is a pattern synchronization error. After the error is recovered. Lights until the next measurement starts.Load in Connec StretchSYNC error:Lights when there is a DA	nal voltage:	-2 V/0 V (GND)
Pattern Synchronization:ON/OFF selectableInput wAuto synchronization:ON/OFF selectableAuto SWhen ON, re-synchronization is done automatically when the error rate is equal to or greater than the prescribed value.TriggeFrame synchronization:Can be turned ON or OFF when pattern mode is FRAME or WORD. Set OFF during PRBS.OutputFrame synchronization:Can be turned ON or OFF when pattern synchronization is done.Clock isRe-synchronization:Command can be given using front panel keys or GPIB.OutputMeasurement Conditions Display Lamp GATE:Lights when measurement.Load in Ovters.OVER:Lights when measurement results overflow.ConnecError Alarm Display Lamp detected.AuxiliDATA error:Lights when a 1 or more bit error is detected.Data m GornecCLOCK error:Lights when heri piput clock fails or frequency is too low.ConnecSYNC error:Lights when the input clock fails or frequency is too low.ConnecSYNC error:Lights after power is restored after a power failure. Stays lit until the next measurement stars.ConnecCLOCK error:Lights when the input clock fails or frequency is too low.ConnecCLOCK error:Lights when here is a pattern synchronization is ecovered. lights until the next measurement stars.Load in ConnecSYNC error:Lights when there is a pattern synchronization is recovered, lights until the next measurement starts.Load in ConnecSYNC error:Lights when there is a		Approx. 50 Ω
Auto synchronization: ON/OFF selectable When ON, re-synchronization is done automatically when the error rate is equal to or greater than the prescribed value. Trigger Frame synchronization: Can be turned ON or OFF when pattern mode is FRAME or WORD. Set OFF during PRBS. When ON, the specified hunting pattern synchronization is done. (PATTI Re-synchronization: Command can be given using front panel keys or GPIB. Output Measurement Conditions Display Lamp GATE: Lights when a 1 or more bit error is detected. Connec overflow. Error Alarm Display Lamp DATA error: Lights when a 1 or more bit error is detected. Connec Goes out when normal clock fails or frequency is too low. Goes out when normal clock fails or frequency is too low. Goes out when normal clock is input. Load in SYNC error: Lights after power is restored after a power failure. Stays lit until the next measurement stars. CLOCK error: Lights after power is restored after a Connec recovered. Jights until the next measurement starts. SYNC error: Lights when there is a pattern Synchronization is recovered. Jights until the next measurement starts. Level: SYNC error: Lights when there is a pattern Synchronization is recovered. Jights until the next measurement starts. Level: SYNC error: Lights when there is a DATA error. Can be set to ON/OFF. Volume variable		2.92 mm (plug)
When ON, re-synchronization is done automatically when the error rate is equal to or greater than the prescribed value.Automa clock in TriggeFrame synchronization:Can be turned ON or OFF when pattern mode is FRAME or WORD. Set OFF during PRBS. When ON, the specified hunting pattern is searched and high speed pattern synchronization is done.Clock spRe-synchronization:Command can be given using front panel keys or GPIB.Pattern PatternRe-synchronization:Command can be given using front panel keys or GPIB.Connec OutputMeasurement Conditions Display Lamp DATA error:Lights when measurement. Lights when a 1 or more bit error is detected.Connec Connec Connec OutputCLOCK error:Lights when a 1 or more bit error is detected.Clock a Connec ConnecCLOCK error:Lights when the input clock fails or frequency is too low. Goes out when normal clock is input.Clock are Connec Connec ConnecSYNC error:Lights after power is restored after a power failure. Stays lit until the next measurement stars.Connec Connec ConnecCLOCK error:Lights when the input clock fails or frequency is too low. After the error is connec synchronization error.Error C ErrorCLOCK error:Lights when the input clock fails or frequency is too low. After the error is connec synchronization error. After the error is recovered, lights until the next measurement stars.Load in ConnecSYNC error:Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts.Load		Sine wave or rectangular wave
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Frame synchronization:Can be turned ON or OFF when pattern mode is FRAME or WORD. Set OFF during PRBS. When ON, the specified hunting pattern is searched and high speed pattern synchronization is done.OutputRe-synchronization:Command can be given using front panel keys or GPIB.Clock sMeasurement Conditions Display Lamp GATE:Lights during measurement. Lights when measurement results overflow.OutputMeasurement Conditions Display Lamp DATA error:Lights when a 1 or more bit error is detected. Goes out when error is no longer detected.Auxili Data m ConnecCLOCK error:Lights when the input clock fails or frequency is too low. Goes out when normal clock is input.Load in ConnecSYNC error:Lights after power is restored after a power failure. Stays lit until the next measurement stars.Code: ConnecCLOCK error:Lights when the input clock fails or frequency is too low. Goes out when pattern synchronization is established.Load in ConnecSYNC error:Lights after power is restored after a power failure. Stays lit until the next measurement starts.Code: ConnecCLOCK error:Lights when the input clock fails or frequency is too low. After the error is recovered, lights until the next measurement starts.Load in ConnecSYNC error:Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts.Load in ConnecSYNC error:Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts. <td>er Signal Output</td> <td></td>	er Signal Output	
mode is FRAME or WORD. Set OFF during PRBS. When ON, the specified hunting pattern is searched and high speed pattern synchronization is done.Clock sy Pattern Pattern (PATT)Re-synchronization:Command can be given using front panel keys or GPIB.OutputMeasurement Conditions Display Lamp GATE:Lights during measurement. Lights during measurement results overflow.OutputError Alarm Display Lamp DATA error:Lights when a 1 or more bit error is detected. Goes out when error is no longer detected.Load in ConnecCLOCK error:Lights when the input clock fails or frequency is too low. Goes out when normal clock is input.Load in ConnecSYNC error:Lights after power is restored after a power failure. Stays lit until the next measurement starts.Doutput Mattern Signal f POWER fail:Lights when the is a pattern synchronization error is connecCLOCK error:Lights when the input clock fails or frequency is too low. Goes out when pattern synchronization is established.Load in ConnecCLOCK error:Lights after power is restored after a power failure. Stays lit until the next measurement starts.Code: Code: SynC error:Load in frequency is too low. After the error is recovered, lights until the next measurement starts.Load in ConnecSYNC error:Lights when the is a pattern synchronization error. After the error is recovered, lights until the next measurement starts.Load in ConnecBuzzer Error:Sounds when there is a DATA error. Can be set to ON/OFF. Volume variablePulse w Sounds when there is a DATA err		Can be selected as either clock
Set OFF during PRBS. When ON, the specified hunting pattern is searched and high speed pattern synchronization is done.Clock s Pattern (PATT)Re-synchronization:Command can be given using front panel keys or GPIB.OutputMeasurement Conditions Display Lamp GATE:Lights during measurement.Load in OutputOVER:Lights when measurement results overflow.ConnectError Alarm Display Lamp DATA error:Lights when a 1 or more bit error is detected.Monito Load in ConnectCLOCK error:Lights when a 1 or more bit error is no longer detected.ConnectCLOCK error:Lights when the input clock fails or frequency is too low. Goes out when normal clock is input.Load in Data m ConsectSYNC error:Lights when there is a pattern synchronization error.Clock rate: Signal f POWER fail:Signal f Power failure. Stays lit until the next measurement stars.Code: Output measurement stars.CLOCK error:Lights when the input clock fails or frequency is too low. After the error is recovered, lights until the next measurement stars.Code: Synch ornization error.CLOCK error:Lights when the input clock fails or frequency is too low. After the error is recovered, lights until the next measurement starts.Load in Connec Synchronization error. After the error is recovered, lights until the next measurement starts.SYNC error:Lights when there is a pattern pulse w synchronization error. After the error is recovered, lights until the next measurement starts.Pulse w Synch error:SYNC error:Li		synchronization or pattern
When ON, the specified hunting pattern is searched and high speed pattern synchronization is done.Clock sp Pattern (PATT)Re-synchronization:Command can be given using front panel keys or GPIB.OutputMeasurement Conditions Display Lamp GATE:Lights during measurement.Load in Connec overflow.Cror Alarm Display Lamp DATA error:Lights when a 1 or more bit error is detected.Moniti detected.CLOCK error:Lights when a 1 or more bit error is no longer detected.Connec ConnecCLOCK error:Lights when the input clock fails or frequency is too low.Connec ConnecSYNC error:Lights when there is a pattern synchronization error.Connec ConnecHistory Display Lamp POWER fail:Lights after power is restored after a power failure. Stays lit until the next measurement starts.Direct or Signal f Pulse w synchronization error.CLOCK error:Lights when the input clock fails or frequency is too low. After the error is established.Load in ConnecCLOCK error:Lights after power is restored after a power failure. Stays lit until the next measurement starts.Code: ConnecSYNC error:Lights when the input clock fails or frequency is too low. After the error is recovered, lights until the next measurement starts.Load in ConnecSYNC error:Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts.Load in frequency is too low. After the error is Load in frequency is too low. After the error is recovered, lights until the next		synchronization
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Re-synchronization: Command can be given using front panel keys or GPIB. Output Measurement Conditions Display Lamp GATE: Lights during measurement. Load in OVER: Lights when measurement results overflow. Connect overflow. Connect overflow. Error Alarm Display Lamp Auxili Monitor detected. Data m Goes out when error is no longer detected. Data m Goes out when error is no longer detected. Connect Clock refor: Lights when the input clock fails or frequency is too low. Clock n frequency is too low. SYNC error: Lights when there is a pattern synchronization is established. Direct or Rate: History Display Lamp Signal f Code: power failure. Stays lit until the next measurement stars. Code: Dutput CLOCK error: Lights when there is a pattern synchronization is ercovered, lights until the next measurement stars. Code: Signal f POWER fail: Lights here nore is restored after a power failure. Stays lit until the next measurement stars. Cuda in frequency is too low. After the error is connect recovered, lights when there is a pattern synchronization error. Code: Connect measurement stars. CLOCK error: Lights when there is a pattern synchronization is recovered, lights until the next measurement stars. Code: Connect measurement stars. SYNC error: Lights when there is a pattern synch	n synchronization	
keys or GPIB.OutputMeasurement Conditions Display LampLoad inGATE:Lights during measurement.Load inOVER:Lights when measurement results overflow.ConnecError Alarm Display LampAuxiliDATA error:Lights when a 1 or more bit error is detected.AuxiliDATA error:Lights when a 1 or more bit error is detected.Monit Load in Load in ConnecCLOCK error:Lights when the input clock fails or frequency is too low.Clock no ConnecSYNC error:Lights when there is a pattern synchronization error. Goes out when pattern synchronization is established.Direct or Rate:History Display LampFower failureLights after power is restored after a power failure.Signal f Code:CLOCK error:Lights after power is restored after a power failure.Code: Signal fCLOCK error:Lights when there is a pattern synchronization error. Goes out when pattern synchronization is established.Load in Tequency is too low. After the error is recovered, lights until the next measurement stars.Load in frequency is too low. After the error is recovered, lights when there is a pattern synchronization error. After the error is recovered, lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts.Load in frequency is too low. After the error is recovered, lights until the next measurement starts.Load in formedBuzzerError:Sounds when there is a DATA error. Can be set to ON/OFF. Volume variableLoad in fo	(ERN):	Varies output position to any position i
Measurement Conditions Display LampLights during measurement.GATE:Lights when measurement.OVER:Lights when measurement results overflow.Error Alarm Display LampAuxiliDATA error:Lights when a 1 or more bit error is detected.CLOCK error:Lights when a 1 or more bit error is no longer detected.CLOCK error:Lights when the input clock fails or frequency is too low. Goes out when normal clock is input.SYNC error:Lights when there is a pattern synchronization error. Goes out when pattern synchronization is established.History Display LampDower failure. Stays lit until the next measurement stars.CLOCK error:Lights when the input clock fails or frequency is too low. Goes out when pattern synchronization is established.History Display LampDower failure. Stays lit until the next measurement stars.CLOCK error:Lights when the input clock fails or frequency is too low. After the error is recovered, lights until the next measurement starts.CLOCK error:Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts.SYNC error:Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts.Buzzer Error:Sounds when there is a DATA error. Can be set to ON/OFF. Volume variable		16 bit units
GATE:Lights during measurement.Load inOVER:Lights when measurement results overflow.ConnectError Alarm Display LampAuxiliDATA error:Lights when a 1 or more bit error is detected.AuxiliDATA error:Lights when a 1 or more bit error is detected.AuxiliCLOCK error:Lights when the input clock fails or frequency is too low.Connect ConnectSYNC error:Lights when there is a pattern synchronization error. Goes out when pattern synchronization is established.Load in ConnectHistory Display LampDigets after power is restored after a power failure. Stays lit until the next measurement stars.Direct or Signal f Code:CLOCK error:Lights when the input clock fails or frequency is too low. After the error is recovered, lights until the next measurement starts.Load in ConnectSYNC error:Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts.Code: Load in ConnectSYNC error:Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts.Load in ConnectBuzzer Error:Sounds when there is a DATA error. Can be set to ON/OFF. Volume variableLoad in Connect		HIGH level 0 V ±0.2 V, LOW level
OVER:Lights when measurement results overflow.Connect overflow.Error Alarm Display LampAuxili Monite detected.Auxili Monite Data m Goes out when a 1 or more bit error is detected.Auxili Monite Data m Load in Connect ConnectCLOCK error:Lights when a 1 or more bit error is no longer detected.Connect Connect Connect Connect Connect Connect Goes out when the input clock fails or frequency is too low. Goes out when normal clock is input.Load in Connect Connect Connect Connect Connect SYNC error:SYNC error:Lights when there is a pattern synchronization error. Goes out when pattern synchronization is established.Error C Code: Output measurement stars.History Display Lamp POWER fail:Lights after power is restored after a power failure. Stays lit until the next measurement stars.Code: Code: Output measurement stars.CLOCK error:Lights when the input clock fails or frequency is too low. After the error is recovered, lights until the next measurement starts.Load in Connect Evertice Code: Code: Code: Code: Code: Code: Code: Connect measurement starts.Load in Connect Code: Code: Code: Code: Code: Code: Code: Code: Code: Connect Code: Code: Code: Code: Code: Code: Code: Code: Code: Code: Code: ConnectSYNC error:Lights when the input clock fails or frequency is too low. After the error is recovered, lights until the next measurement starts.Load in Connect Code: Code: Code: Code: Code: Connect Connect measu		-1 V ±0.2 V
overflow.Error Alarm Display LampAuxiliDATA error:Lights when a 1 or more bit error is detected.Monite detected.DATA error:Lights when a 1 or more bit error is no longer detected.Data m Goes out when error is no longer detected.ConnecCLOCK error:Lights when the input clock fails or frequency is too low.Clock n Goes out when normal clock is input.Load in ConnecSYNC error:Lights when there is a pattern synchronization error.ConnecSYNC error:Lights after power is restored after a power failure. Stays lit until the next measurement stars.Output measurement stars.CLOCK error:Lights when the input clock fails or frequency is too low. After the error is recovered, lights until the next measurement starts.Load in ConnecSYNC error:Lights when the input clock fails or frequency is too low. After the error is recovered, lights until the next measurement starts.Load in ConnecSYNC error:Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts.Load in Connec Connec Dotect clights until the next Synchronization error. After the error is recovered, lights until the next measurement starts.Load in ConnecBuzzerError:Sounds when there is a DATA error. Can be set to ON/OFF. Volume variableLoad in Connec	1	50 Ω to 0 V
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detected. Goes out when error is no longer detected.Data m Load in CalorCLOCK error:Lights when the input clock fails or frequency is too low. Goes out when normal clock is input.Load in Connect Clock n frequency is too low. Goes out when normal clock is input.Load in Connect Connect Synchronization error.SYNC error:Lights when there is a pattern synchronization error. Goes out when pattern synchronization is established.Direct of Rate:History Display LampSignal f POWER fail:Signal f Code: power failure. Stays lit until the next measurement stars.Output Signal f Connect Rate:CLOCK error:Lights when the input clock fails or frequency is too low. After the error is recovered, lights until the next measurement starts.Load in Connect Rate:SYNC error:Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts.Load in frequency is too low. After the error is connect measurement starts.SYNC error:Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts.Load in connect measurement starts.Buzzer Error:Sounds when there is a DATA error. Can be set to ON/OFF. Volume variableImage: Sounds when there is a battern sounds when there is a battern.	tor Output	
Goes out when error is no longer detected.Load in ConnectCLOCK error:Lights when the input clock fails or frequency is too low. Goes out when normal clock is input.Load in ConnectSYNC error:Lights when there is a pattern synchronization error. Goes out when pattern synchronization is established.Load in ConnectHistory Display LampDirect of gower failure. Stays lit until the next measurement stars.Direct of Code: Output measurement stars.CLOCK error:Lights when the input clock fails or frequency is too low. After the error is recovered, lights until the next measurement starts.Load in Connect Rete: Synchronization error.SYNC error:Lights when there is a pattern power failure. Stays lit until the next measurement starts.Load in Connect Rete: Connect Display LampPOWER fail:Lights when the input clock fails or frequency is too low. After the error is recovered, lights until the next measurement starts.Load in frequency is too low. After the error is Load in recovered, lights until the next measurement starts.Level:SYNC error:Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts.Load in connect measurement starts.Buzzer Error:Sounds when there is a DATA error. Can be set to ON/OFF. Volume variableLoad single	•	Outputs data input through amplifier
detected.ConnectCLOCK error:Lights when the input clock fails or frequency is too low. Goes out when normal clock is input.Load inSYNC error:Lights when there is a pattern synchronization error. Goes out when pattern synchronization is established.Load inHistory Display LampDirect of Goes out when pattern synchronization is established.Direct of Rate: Signal fPOWER fail:Lights after power is restored after a power failure. Stays lit until the next measurement stars.Output Stretche Lights when the input clock fails or frequency is too low. After the error is recovered, lights until the next measurement starts.Load in Connect Rate: Stretche Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts.Load in Connect Rate: Stretche Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts.Load in Connect Connect Rate: Stretche Load in Stretche Load in recovered, lights until the next measurement starts.Load in Connect Connect Rate: Stretche Load in Connect Rate: Stretche Rate:<		50Ω to 0 V
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SYNC error:Goes out when normal clock is input. Lights when there is a pattern synchronization error. Goes out when pattern synchronization is established.Load im Connect Error CHistory Display LampEights after power is restored after a power failure. Stays lit until the next measurement stars.Direct or Rate: Signal fCLOCK error:Lights when the input clock fails or frequency is too low. After the error is recovered, lights until the next measurement starts.Load im Connect Rate: Synchronization error.SYNC error:Lights when the input clock fails or frequency is too low. After the error is recovered, lights until the next measurement starts.Load im Connect Load in frequency is too low. After the error is connect measurement starts.SYNC error:Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts.Load im connect measurement starts.Buzzer Error:Sounds when there is a DATA error. Can be set to ON/OFF. Volume variableIoad in connect		Outputs clock input through amplifier
SYNC error:Lights when there is a pattern synchronization error. Goes out when pattern synchronization is established.Connect Error CHistory Display LampLights after power is restored after a power failure. Stays lit until the next measurement stars.Direct or Rate: Signal fCLOCK error:Lights when the input clock fails or frequency is too low. After the error is recovered, lights until the next measurement starts.Load in Connect Rate: Synchronization error. After the error is recovered, lights until the next measurement starts.Load in Connect Connect Connect Connect Connect Connect Connect measurement starts.SYNC error:Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts.Lights when there is a pattern synchronization error. After the error is Load in recovered, lights until the next measurement starts.Buzzer Error:Sounds when there is a DATA error. Can be set to ON/OFF. Volume variable		and variable delay line
synchronization error. Goes out when pattern synchronization is established. History Display Lamp POWER fail: Lights after power is restored after a power failure. Stays lit until the next measurement stars. CLOCK error: Lights when the input clock fails or frequency is too low. After the error is recovered, lights until the next measurement starts. SYNC error: Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts. SYNC error: Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts. Buzzer Error: Sounds when there is a DATA error. Can be set to ON/OFF. Volume variable	1	50 Ω to 0 V
Goes out when pattern synchronization is established.Direct of Rate:History Display LampLights after power is restored after a power failure. Stays lit until the next measurement stars.Code: Output measurement stars.CLOCK error:Lights when the input clock fails or frequency is too low. After the error is recovered, lights until the next measurement starts.Load in frequency is too low. After the error is connect measurement starts.SYNC error:Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts.Level:SYNC error:Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts.Load in connect measurement starts.Buzzer Error:Sounds when there is a DATA error. Can be set to ON/OFF. Volume variableLights until ble		2.92 mm (plug)
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ower failure. Stays lit until the next measurement stars.OutputCLOCK error:Lights when the input clock fails or frequency is too low. After the error is recovered, lights until the next measurement starts.Load in Connect recovered, lights until the next stretche measurement starts.Load in too low. After the error is too low. After the error is too low. After the error is terche tercheLoad in too low. After the error is terche too low. After the error is terche tercheLoad in 		32 phase logical sum
measurement stars. Load in CLOCK error: Lights when the input clock fails or Load in frequency is too low. After the error is Connec recovered, lights until the next Stretche measurement starts. Level: SYNC error: Lights when there is a pattern Pulse w synchronization error. After the error is recovered, lights until the next Load in recovered, lights until the next Market and		RZ HIGH level -0.0 ± 0.3 V
CLOCK error: Lights when the input clock fails or frequency is too low. After the error is connect recovered, lights until the next Stretche measurement starts. Level: SYNC error: Lights when there is a pattern Pulse w synchronization error. After the error is Load in recovered, lights until the next Connect measurement starts. Buzzer Error: Sounds when there is a DATA error. Can be set to ON/OFF. Volume variable		LOW level -1.0 \pm 0.3 V
frequency is too low. After the error is Connect recovered, lights until the next Stretche measurement starts. Level: SYNC error: Lights when there is a pattern Pulse w synchronization error. After the error is Load in recovered, lights until the next Connect measurement starts. Load in recovered, lights until the next Connect measurement starts. Buzzer Error: Sounds when there is a DATA error. Can be set to ON/OFF. Volume variable Volume variable		50Ω to 0 V
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measurement starts. Level: SYNC error: Lights when there is a pattern synchronization error. After the error is recovered, lights until the next measurement starts. Pulse w Buzzer Connect measurement starts. Error: Sounds when there is a DATA error. Can be set to ON/OFF. Volume variable	ned output	Sini (aon)
synchronization error. After the error is recovered, lights until the next measurement starts. Buzzer Error: Sounds when there is a DATA error. Can be set to ON/OFF. Volume variable	-	TTL positive pulse
Buzzer Sounds when there is a DATA error. Can be set to ON/OFF. Volume variable		Approx. 100 ns
Buzzer Error: Sounds when there is a DATA error. Can be set to ON/OFF. Volume variable	mpedance:	50 Ω to 0 V
Buzzer Error: Sounds when there is a DATA error. Can be set to ON/OFF. Volume variable	ector:	BNC (jack)
Error: Sounds when there is a DATA error. Can be set to ON/OFF. Volume variable		
be set to ON/OFF. Volume variable		
(same as alarm volume).		
Alarm: Sounds when there is a CLOCK or		
Sounds when there is a CLOCK of SYNC error. Can be set to ON/OFF.		
Volume variable (same as error volume).		

Control Input

External Gate Input Function: Input level: Input impedance: Connector: **External Alternate Input** Function

Input level: Input impedance: Connector:

Patterns

Same as for the D3186 Pulse Pattern Generator

Timer/Clock

Timer/Clock Display	
ELAPSED:	Displays the elapsed time since the star
	of measurement.
TIMED:	Displays the remaining time until the end of measurement.
PERIOD:	Displays or sets the measuring period
	from the start of measurement until the
INTERVAL:	Displays or sets the measuring cycle.
BURST TIME:	Displays or sets the measuring time per
	signal burst when the measuring time
	mode is BURST.
REAL TIME:	Displays or sets real time as
	year/month/day/hour or
	day/hour/minute/second.
Thus an Md a da	5

Timer Mode SINGLE:

REPEAT:

UNTIMED:

Time Reference Clocks: Internal clock stability: External clock input: Connector:

System Functions Printer:

External printer interface: Standard specification: Connector: File Function:

Measurement results: **Remote Control** Interface: Master/Slave Function Function:

Connection method:

Controls measurement start/stop 0 V/-1 V Approx. 50 Ω to 0 V BNC (jack)

Switches between patterns A and B in alternate mode. Pattern A at HIGH level. pattern B at LOW level. 0 V/-1 V Approx. 50 Ω to 0 V BNC (jack)

When the set period of measurement has elapsed, the measurement is stopped. When the set period of measurement has elapsed, a new measurement is begun. The sequence is repeated until a command to stop is received. Measurement continues regardless of the set measuring period, until the command to stop is given. Internal, external, selected automatically 10 ppm/year 10 MHz, 1 Vp-p , AC coupled BNC (Jack)

Measurement results can be output to an external printer

Centronics specification 36 pin micro ribbon Same as for the D3186 Pulse Pattern Generator and possible to save measurement results MS-DOS® text format

GPIB (IEEE 488-1978)

When used together with the D3186 Pulse Pattern Generator, allows the pattern settings of the D3186 and D3286 to be interlocked. Connected by GPIB cable, through each GPIB connector

Panel Lock:

General Specifications

Numerical value display: Set conditions memory:

Operating temperature range:

Operating humidity range: Storage temperature range: Storage humidity range: Power:

Power consumption: Mass: External dimensions:

Standard Accessories

Green 7 segment LED display After power has been ON for 12 hours, retained at least 2 weeks (backed up by secondary battery) 0° C to $+40^{\circ}$ C +20°C to +30°C (Option 72) 40% to 85% RH -20°C to +60°C 30% to 85% RH (without condensation) AC 100 V to 120 V, AC 220 V to 240 V (switches automatically) 48 to 63 Hz, sine wave 500 VA max. 32 kg max. Approx. 266 (H)×424 (W)×

Can lock all condition settings except

settings, and buzzer volume level.

power ON/OFF, panel lock ON/OFF,

GPIB Local return, rear panel DIP switch

550 (D) mm

Name Туре Stock No. Quantity Remarks Power Cable A01402 DCB-DD2428X01 1 SMA-SMA Cable DGM224-00700A DCB-FF1211X01 3 GPIB Cable 408JE - 101 DCB-SS1076X02 1 3 Pin - 2 Pin Converter A09034 JCD - AL003EX03 1 Adapter For Power Plug 2.92 mm Adapter 02K121-K00S3 JCF-BJ001EX05 4 JD3286 Japanese User's Manual 1 ED3286 English

Please be sure to read the manual of product thoroughly before using the products. Specifications may change without notification.

