High Value Chip Resistors TYPE Resistance Range 1M Ω ~150G Ω



The HC type resistors are small in size, but offer high resistance and have found wide application in measuring instruments, sensor and many other apparatuses.

FEATURES

E&C

Small in size, lightweight, and ideal for application in laborsaving equipment.

A wide range of operating temperatures.

Stable performance obtained because of excellent long-term stability.

CHARACTERISTICS







Temperature Coefficient (TCR) 25°C→125°C

Voltage Coefficient (VCR) 5V→15V

PRODUCTION DATA





Туре	Rated power	Max. working voltage	Max. overload voltage	Rang resis value	ge of stance es		Electrode	Resistance tolerance				
	(W)	DC (V)	DC (V)	Min. (MΩ)	Max. (GΩ)	L	Н	t	l 1	£2	snape %1	(%)
НСЗА	1	300	500	1	150	6.4±0.2	3.2 ±0.2	0.55±0.1	$0.5 {\pm} 0.3$	0.5 ±0.3	D	±5 (J) %2
HC2A	1/8	150	300	1	150	3.2±0.2	1.6 ±0.2	0.55±0.1	0.5±0.3	0.5 ±0.3	D	±10(K)
HC2B	1/16	75	150	1	150	2.0±0.2	1.25±0.2	0.5 ±0.1	0.4±0.2	0.4 ±0.2	D	±20(M)
HC2C	1/32	50	100	1	150	1.6±0.1	0.8 ±0.1	0.45±0.1	0.2±0.1	0.3 ±0.1	D	±30(N)
HC1C	1/60	50	100	1	150	1.0±0.1	0.5 ±0.1	0.3±0.05	0.2±0.1	0.25 +0.15	D	±50

NOTICE: % 1 We can also supply the T type of electrode shape.

≈2 Resistance tolerance are 5% (≤10GΩ)

* Also consult your local dealer for the availability of chip resistors with dimension of your needs and Au terminals.

Precision High Value
Chip ResistorsTYPEResistance Range $1M\Omega \sim 100M\Omega$
Tolerance $\pm 1\%, \pm 2\%, \pm 5\%$



The HP type resistors are the high precise version of HC type resistors. The resistance tolerance is small, \pm 1%, at 100M Ω and TCR is also small.

FEATURES

E&C

- Very small resistance tolerance at $100M\Omega$
- Small temperature coefficient
- Stable performance obtained because of excellent long-term stability.

CHARACTERISTICS

litere	Charao	cteristics	Test restlies d					
Item	1MΩ~50MΩ	51MΩ~100MΩ	rest method					
Long-term stability	±0.5%	±0.5%	At normal temperature and humidity for 1,000hr.					
High temperature loading	±0.5%	±1%	Rated Voltage. 1.5hr ON, 0.5hr OFF, 1,000hr at 70°C					
Resistance to soldering heat	±0.5%	±1%	260°C±5°C 10sec ⁺¹ ₋₀ sec					
Short-time overload	±0.5%	±1%	Test for 5sec using maximum overload voltage.					
Operating temperature range	−55°C~	~+125°C						

Temperature Coefficient (TCR)

-	Characteri					
Гуре	1ΜΩ~50ΜΩ	51MΩ~100MΩ	l est method			
HP2A						
HP2B	±100ppm/°C	+200ppm/°C	25°C→125°C			
HP2C			200 1200			
HP1C	±200ppm/°C					

Voltage Coefficient (VCR)

Туре	Characteristics	Test method
HP2A	-0.02%/V≦	
HP2B		E\/1E\/
HP2C	-0.1%/V≦	50-150
HP1C		

l1

Resistive film

Т

PRODUCTION DATA



Turno	Rated power	Max.	Max.	Range of Values	resistance			Electrode	Resistance			
Type	(W)			Min.	Max.			()			shape	
		DC(V)	DC(V)	(MΩ)	$(M\Omega)$	L	Н	t	l 1	l2	※1	(%)
HP2A	1/8	150	300	1	100	3.2±0.2	1.6 ±0.2	0.55±0.1	0.5 ± 0.3	0.5 ±0.3	D	+1(F)
HP2B	1/16	75	150	1	100	2.0±0.2	1.25±0.2	0.5 ±0.1	0.4 ± 0.2	0.4 ±0.2	D	+2(G)
HP2C	1/32	50	100	1	100	1.6±0.1	0.8 ±0.1	0.45±0.1	0.2±0.1	0.3 ±0.1	D	+5(1)
HP1C	1/60	50	100	1	100	1.0±0.1	0.5 ± 0.1	$0.3 \hspace{0.1in} \pm 0.05$	0.2±0.1	$0.25^{+0.15}_{-0.1}$	D	(0)

NOTICE: %1 We can also supply the T type of electrode shape.

* Also consult your local dealer for the availability of chip resistors with dimension of your needs and Au terminals.





Surface Mount Precision Plate Resistors



The SM type precision plate resistors are designed for surface mounting on board by soldering or the other.

FEATURES

- Small temperature coefficient.
- Excellent moisture resistance.
- Excellent long-term stability.
- Useful as a high voltage load.

CHARACTERISTICS

		Characteristic	s					
Item	0140	SM5~	-SM20	Test method				
	51012	≦100MΩ	100MΩ<					
Operating temperature range		55°C~+150°	с					
Long-term stability	±0.5%	±0.1%	±1%	At normal temperature and humidity for 10,000hr.				
Moisture resistance	±0.5%	±0.1%	±1%	40°C, 90 \sim 95%RH, 1,000hr.				
Heat cycle	±0.5%	±0.1%	±1%	-55°C+150°C 5cycles				
Resistance to soldering heat	±0.5%	±0.1%	±1%	260°C±5°C 10sec.				
Temperature coefficient	A B ±10 ±2	C D 5 ±50 ±100	ppm/°C	Measured at 25°C and 75°C				

PRODUCTION DATA

Shape





	Characteristics		Range of resistance		Rated	Max.	Voltage *		C		Resistance		
Туре		Temperature	Vai	ues	ponor	voltage			-	-	tolerance		
	Symbol	coefficient (ppm/°C)	Min. (MΩ)	Max. (MΩ)	(W)	DC(kV)	(ppm/V)	L	н	t	l 1	l2	(%)
SM2	D	±100	0.5	50	0.125	0.3	<100	3.2 ±0.2	1.6 ±0.2	0.55 ±0.1	0.5 ±0.3	0.5 ±0.3	±1(F) ±2(G) ±5(J)
	В	±25	0.5	10									
SM5	С	±50	0.5	10	0.5	1.0	<20	6.4	3.2 ±0.2	0.55 ±0.1	0.5 ±0.3	0.5 ±0.3	+0.1(B)
	D	±100	0.5	1000				0.2	0.2	0.1	0.0	0.0	±0.25(C)
	В	±25	1	100									±0.5(D) <100MO
SM10	С	±50	1	100	1.0	2.5	<5	12.8 ±0.2	+0.2	+0.2	+0.3	2.0	
	D	±100	1	1000									
SM15	D	±100	1	1000	1.5	3.5	<2	18.0 ±0.2	5.0 ±0.2	0.8 ±0.2	1.0 ±0.3	2.0 ±0.2	±1(F) ±2(G) ±5(1)
SM20	D	±100	1	1000	2.0	5.0	<1	25.5 ±0.2	5.0 ±0.2	0.8 ±0.2	1.0 ±0.3	2.0 ±0.2	±10(K) ≦1GΩ

NOTICE: %Also consult your local dealer for the availability of resistors with a temperature coefficient of "A" characteristic (±10ppm/°C). %The voltage coefficient are measured at rated voltage and 1/10 rated voltage. (SM2 type are measured at DC5V and DC15V).

JAPAN FINECHEM COMPANY, INC.



Precision Resistors for Voltage Divider



The BT type resistors are useful precision resistor for voltage divider.

FEATURES

- Excellent accuracy of divider.
- Small temperature coefficient.
- Excellent long-term stability.

CHARACTERISTICS

Item	Characteristics	Test method
Operating temperature range	-55°C~+150°C	
Absolute temperature coefficient	C:±50ppm/°C (≦100MΩ) D:±100ppm/°C	Measured at 25°C and 75°C
Ratio temperature coefficient	B :±25ppm/°C (≦100MΩ) C:±50ppm/°C	Measured at 25°C and 75°C
Ratio tolerance	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Measured at DC100V
Ratio stability change in ratio		
Long-term stability	±0.1% (≦100MΩ)	At normal temperature and humidity for 1,000hr.
Moisture resistance	±0.1% (≦100MΩ)	60° C, 90 \sim 95%RH, 1,000hr.
Short-time overload	±0.1% (≦100MΩ)	Rated voltage×2.5 applied for 5sec.

PRODUCTION DATA

Shape







	Туре	Range of resistanceTypevalues		Rated voltage	Rated voltage		Number of	Number of	Dimensions (mm)						Absolute
	%1	Min. (MΩ)	Max. (MΩ)	DC (V)	Min.	Max.	elements	pins	L	Н	t	р	l	W	(%)
Surface mount	BTS22	1	100	100	1/2	1/50	2	3	6.4	3.2	0.55	1.4	0.8	0.8	±0.1(B) ±0.25(C)≤10M
	BTL32	1	100	300	1/2	1/50	2	3	12.7	5.08	1.8	5.08	7.5	0.5	±0.5(D) ±1(E)≤100M
Lead wire mount	BTL5 *	1	100	500	1/2	1/100	2~4	3~5	25.4	5.08	1.8	*2	7.5	0.5	±2(G)
	BTL7 *	1	1000	1200	1/2	1/10000	2~9	3~10	50.8	19.0	1.8	*2	7.5	0.5	±10(K)≦1G

NOTICE: %1 The mark of Types '*' is number of elements. %2 The lead pin pich is 0.2inch at minimum.

* Consult your local dealer for the availability of resistors with resistance values and ratio which are the ranges given above and with a special shape. * Also consult your local dealer for the minimum order quantity.

JAPAN FINECHEM COMPANY, INC.

E&C

LUV Superhigh Precision Plate Resistors **TYPE**



The LM type resistors are superhigh precision plate resistors with simple structure.

FEATURES

- Small temperature coefficient.
- Excellent moisture resistance.
- Excellent long-term stability.
- Useful as a high voltage load.

CHARACTERISTICS

	Charact	eristics	-
Item	≦100MΩ	100MΩ<	l est method
Operating temperature range	−55°C~	+150°C	
Long-term stability	±0.1%	±1%	At normal temperature and humidity for10,000hr.
Moisture resistance	±0.1%	±1%	40°C, 90 ~ 95%RH, 1,000hr.
Heat cycle	±0.1%	±1%	-55°C~+150°C 5cycles
Resistance to soldering heat	±0.1%	±1%	260°C±5°C 10sec.
Temperature coefficient	A B C ±10 ±25 ±50	D ±100 ppm/°C	Measured at 25°C and 75°C

PRODUCTION DATA







		Characteristics		Range of resistance values		Rated	Rated Max.				Resistance					
	Туре	Symbol	Temperature coefficient (ppm/°C)	Min. (MΩ)	Max. (MΩ)	power (W)	voltage DC (kV)	coefficient (ppm/V)	L	н	t	p	l	W	tolerance (%)	
		В	±25	0.5	10					2.0 ±0.2	1.7 ±0.3	- 00				
	LM3	С	±50	0.5	10	0.15	0.5	<30	6.3 ±0.2			5.08	+0.3	0.5		
		D	±100	0.5	1000							<u>-0.2</u>	-0.5	±0.1	±0.1(B)	
		В	±25	0.5	10	0.25 0.5								±0.25(C)		
	LM5	С	±50	0.5	10		0.5	<20	+0.2	+0.2	+0.3	5.08 +0.2	7.5 +0.3	0.5 +0.1	±0.5(D)	
		D	±100	0.5	1000				±0.2	±0.2	±0.3	±0.2	±0.3	<u> </u>	≦100MΩ	
		В	±25	5	100		0.5 1.0			10-						
	LM10	С	±50	5	100	0.5		<5	12.7 ±0.2	5.0 ±0.2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10.16	7.5 ±0.3	0.5 + 0.1	+1(F)	
		D	±100	1	1000							<u> </u>		±0.1	$\pm 2(G)$	
		В	±25	5	100				17.0		10	15.04		0.5	±5(J)	
	LM15	С	±50	5	100	0.75	1.5	<2	17.8	5.0	1.8	+0.2	+0.2	0.5 + 0.1	±10(K)	
		D	±100	1	1000				±0.2	<u>-0.2</u>	±0.3	-0.2	±0.3	-0.1	≦1GΩ	
	LM20	В	±25	5	100											
		С	±50	5	100	1.0	2.0	<1	25.4	5.0 ±0.2	1.8	22.86 ±0.2	7.5 ±0.3	0.5		
		D	±100	1	1000				±0.2		±0.3			±0.1		

NOTICE: % Also consult your local dealer for the availability of resistors with a temperature coefficient of "A" characteristic(±10ppm/°C). * The voltage coefficient are measured at rated voltage and 1/10 rated voltage.







E&C

The FP type resistors are manufactured by sintering the resistive film on the ceramic substrate. They are particularly useful in the high-voltage circuit. Some products are compliant with complete lead free, it's used lead free glass.

Complete lead free products reduce the effects on the environment.

FEATURES

Useful as a high-voltage load; Highly resistant to the impulse voltage.

Small temperature coefficient.

Minimized resistance change in long-term stability.

CHARACTERISTICS

Item	Characteristics	Test method			
Operating temperature range	-40°C~+150°C				
Temperature coefficient	B C D S ±25 ±50 ±100 ±200 ppm/°C	Measured at 25°C and 75°C			
Long-term stability	±1%	At normal temperature and humidity for10,000hr.			
Moisture resistance	±1%	40°C, 90 to 95%RH, 250hr.			
Load life	±1%	Rated power×1/2 at normal temperature for 3,000hr			

PRODUCTION DATA

Shape



		Chara	acteristics	Range of	resistance	Max.									
Туре	Complete		Temperature	val	ues	power	DC(kV)					Resistance			
% 1	lead free	Symbol	coefficient (ppm/°C)	Min. (MΩ)	Max. (MΩ)	(W)	in air	Molding	L (Max.)	р	H (Max.)	t	l	d	(%)
		В	±25	2	70										
		С	±50	2	70	1/2	2	4	19	14+1					
TFD1/2		D	±100	0.05	500	1/2				17-1					
		S	±200	0.01	1000										
		В	±25	3	100										
EDD1		С	±50	3	100		5 10			01 5	8.5	2.5±1	33±3		±0.5(D) ±1(F) ±5(J)
TFDI		D	±100	0.05	1000	1		10	27	21.5					
		S	±200	0.01	1000										
FPD1L	0	S	±200	1	1000									0.6	
		В	±25	5	150									0.6	
5000		С	±50	5	150										
FPD2		D	±100	0.1	1000	2									
		S	±200	0.02	1000										
FPD2L	0	S	±200	1	1000		15	30	52	16+1					
		В	±25	10	300			50	52	40-1]			
		С	±50	10	300										
FPD4		D	±100	0.1	1000	4					13.5				
		S	±200	0.05	1000										
FPD4L	0	S	±200	1	1000										

NOTICE: **1 Type of complete lead free are marked with symbolic code *L" (Example : FPD1LS 100MF). **Consult your local dealer for the availability of resistors with resistance values and tolerances which are outside the ranges given above and of a special shape.

<CAUTION> Rated power recommend derate less than 50% for long term use.

E&C RH Superhigh Precision High Voltage Resistors



The RH type resistors are used mainly in the physical and chemical measuring instruments, X-ray apparatuses, electron microscopes, and other industrial equipments.

FEATURES

- Markedly small temperature coefficient.
- Small in size, light weight, and high reliability.
- Minimized resistance change in long-term stability and load life.
- Protected from changes in pulse voltage.
- A wide range of resistance values stably obtained.
- Fire-retarding.

CHARACTERISTICS

Item	Characteristics	Test method				
Operating temperature range	-55°C~+150°C					
Short-time overload	±0.5%	Rated voltage \times 2.5 applied for 5sec				
Long-term stability	±0.5%	At normal temperature and humidity for 10,000hr.				
Moisture load life	±0.5%	40°C, 90 to 95%RH, Rated power \times 1/2, 1,000hr.				
load life	±0.5%	25°C, Rated power \times 1/2, 3,000hr.				
Resistance to soldering heat	±0.2%	380°C, 3sec.				
	%1 "A" characteristic, ±10ppm/°C					
	"B" characteristic, \pm 25ppm/°C	The test data is based on a temperature				
Temperature coefficient	"C" characteristic, \pm 50ppm/°C	difference of 100°C (reference temperature,25°C				
	"D" characteristic, \pm 100ppm/°C	measurement temperature, 125 C).				
	"S" characteristic, ±200ppm/°C					



PRODUCTION DATA

	Char	acteristics	Range of values	resistance	Rated	Max. working	Impulse voltage		Dimer (m	nsions m)		Resistance
Туре	Symbol	Coefficient (ppm/°C)	Min. (MΩ)	Max. (MΩ)	power (W)	voltage DC (kV)	(kV) 1.2×50	L	D	l	d	tolerance (%)
	В	±25	0.1	50	. ,		μοσο					
	C	±50	0.05	100	17							
RH ¹ /8HV	D	±100	0.01	100	1/8	0.5	1.25	6±1	2±0.6	30±3	0.6±0.05	
	S	±200	0.01	500								
	B	±25	0.1	50								
	С	±50	0.1	100	1/	0.75	4.5					
RH ¹ /4HV	D	±100	0.01	300	1/4	0.75	1.5	9±1	3±1	38±3	0.6±0.05	
	S	±200	0.01	1000								
	В	±25	0.1	50								
5	С	±50	0.1	100	1/	4.5		10.1	4514	00 1 0	0.0.0.05	
RH ¹ /2HV	D	±100	0.1	1000	1/2	1.5	3	13±1	4.5±1	38±3	0.8±0.05	
	S	±200	0.1	5000								
	В	±25	0.1	100								
5	С	±50	0.1	500		_	4	44514	4514	00 1 0	0.0 1.0.05	
RH1HV	D	±100	0.1	2000	I	2	4	14.5±1	4.5±1	38±3	0.8±0.05	
	S	±200	0.1	10000								
	В	±25	0.1	100								
	С	±50	0.1	500	0	5	10	06 5 + 1	5 5 ± 1	20+2	1+0.05	
RH2HV	D	±100	0.1	2000	2	5	10	20.5±1	5.5±1	30±3	1±0.05	
	S	±200	0.1	10000								
	В	±25	1	500								±0.5 (D)
	С	±50	0.1	500	2	10	20	40+0	5 5 ± 1	20+2	1+0.05	$ \begin{array}{c} \leq 1 G \Omega \\ \pm 1 (F) \\ \pm 2 (G) \end{array} $
кнзну	D	±100	0.1	2000	3	10	20	42±2	5.5±1	30±3	1±0.05	
	S	±200	0.1	10000								± 2 (G)
	В	±25	1	500								± 3 (3) ± 10 (K)
	С	±50	0.1	500	Λ	15	30	52+2	85+1	38+3	1+0.05	
	D	±100	0.1	2000	4		50	52.2	0.5 1	50±5	1 - 0.00	
	S	±200	0.1	10000								
	В	±25	1	500								
рцецу	С	±50	0.5	500	6	20	40	77+2	85+1	29+2	1+0.05	
	D	±100	0.5	2000	0	20	40		0.5 1	50±5	1 - 0.00	
	S	±200	0.1	10000								
	В	±25	1	500								
BH8HV	С	±50	1	500	8	30	50	97+2	85+1	38+3	1+0.05	
	D	±100	1	2000	Ŭ			0.122	0.0	0010		
	S	±200	0.1	10000								
	В	±25	1	500								
BH10HV	С	±50	1	500	10	35	60	117±3	8.5±1	38±3	1±0.05	
10110	D	±100	1	2000				0	0.0	0010		
	S	±200	0.1	10000								
	В	±25	1	500								
BH12HV	С	±50	1	500	12	40	70	137±3	8.5±1	38±3	1±0.05	
	D	±100	1	2000								
	S	±200	0.1	10000								
BH14HV	D	±100	1	2000	14	50	80	162+3	8.5+1	38+3	1+0.05	
10114110	S	±200	0.1	10000	17			102_0	0.0_1	00_0	1_0.00	
BH16HV	D	±100	1	2000	16	60	90	190+2	85+1	38+3	1+0.05	
	S	±200	0.1	10000	.0		30	130-3	0.0±1	00±3	1 ± 0.05	

NOTICE: (1) Resistance tolerance $\pm 0.1\%,\,\pm 0.25\%$ resistor is producible at type

RU series. 2) The resistors to be used in insulation oil and other similar substances have the model number of SR instead of RH (RH4HV to RH16HV).

(The Type SR resistors are provided with an oil feed hole.)
(3) SSR type resistors (SSR2HV to SSR14HV) are recommended for molding application with resin.
(4) The size of SSR type resistors equal to each RH types.

%1 Also consult your local dealer for the availability of resistors with a temperature coefficient of "A" characteristic.



RH4HV~RH16HV The shape of the cap type RH4HV to RH16HV.



	Dimensions (mm)							
Туре	Lp	Dp	lр					
RH4HVP	60±2	9.0±0.2	10±1					
RH6HVP	85±2	9.0±0.2	10±1					
RH8HVP	105±2	9.0±0.2	10±1					
RH10HVP	125±2	9.0±0.2	10±1					
RH12HVP	145±2	9.0±0.2	10±1					
RH14HVP	170±2	9.0±0.2	10±1					
RH16HVP	198±2	9.0±0.2	10±1					

SHO



Precision Ultrahigh Value Resistors

(RHATYPE : Hermetically sealed type)

The RH Ultrahigh type resistors are designed for use in the detection of trickle current and for other similar purposes. Their operating stability by far excels that of conventional models.

FEATURES

- Small temperature coefficient.
- Easy to handle.
- High reliability.
- Minimized reduction in long-term stability and load life.

CHARACTERISTICS

Item		Characteristic	S	Test method		
Operating temperature range	ľ	RH Type: −35°C~· RHA Type: −30°C~·	+70°C +70°C			
Long-term stability		±1%		At normal temperature and humidity for 3,000hr.		
Reduction in long-term stability at high temperature		-1%≦		In thermostatic oven mained at 70°C for 1,000hr		
Insulation resistance		$>$ 9.0 $ imes$ 10 ¹³ Ω cn	ı	40°C, 90∼95%RH, 1,000hr, at 500V		
	$10G\Omega{\sim}15G\Omega$	15G Ω ~7000G Ω	$7000 G\Omega \sim 10000 G\Omega$	Manaurad at 10V and 100V		
Voltage coefficient	−20ppm/V≦	-100ppm/V≦				
			−500ppm/V≦	Measured at 100V and 500V		

PRODUCTION DATA

Shape



RH Ultrahigh type





RHA Type (Hermetically sealed type)

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[5	

Туре	Temperature	Range of resistance values		Max. working	Impulse voltage		Resistance tolerance				
туре	(ppm/°C)	Min. (GΩ)	Max. (GΩ)	DC (kV)	1.2×50μsec	L	L D		d	(%)	
RH1/4HVS	±400	1	5	0.75	1.5	9±1	3±1	38±3	0.6±0.05		
RH1HVS	±200	10	15	0	4	14.5±1	4.5±1 (5.1±0.2)	29+2	0 8 + 0 05		
(RHA2S)	±400	15	50	2	4	(14±0.5)		30-3	0.0 - 0.05		
	±200	10	100		10	26.5±1 (27±0.5)	5.5±1 (6.5±0.2)		1±0.05	$\pm 1(F)$	
RH2HVS	±400	100	300	_				38±3		≟2(G) ≦1TΩ	
(RHA3S)	±1000	300	600	5							
	±1500	600	3000							±5 (J)	
	±200	10	100							±10(K) ≤10TΩ	
RH3HVS	±400	100	600	10	20	42±2	5.5±1 (6.5±0.2)	20 + 2	1+0.05		
(RHA5S)	±1000	600	1000	10	20	(42±0.5)		30-3	1-0.05		
	±1500	1000	10000								

NOTICE:* The RHA type as an improved version of the RH type Ultrahigh Value Resistor is highly resistant to humidity, protected against a long-term stability, and offers increased reliability.



Ultrahigh Precision High Accuracy Resistors



The RU type resistors have higher reliability when they are mounted on board, and excellent long term stability.

These are used mainly in semi-conductor equipments, X-ray apparatuses, and other many measuring instruments.

FEATURES

ТҮРЕ

Small temperature coefficient, small resistance tolerance.

Small in size, light weight, high reliability and excellent long-term stability.

Strong resistance for pulse voltages.

Strong thermal shock resistance when they are mounted on board.

CHARACTERISTICS

Item	Characteristics	Test method				
Operating temperature range	-55°C~+150°C					
Short-time overload	±0.1%	Rated voltage \times 2.5 applied for 5sec.				
Resistance to soldering heat	±0.1%	260°C 10sec. or 380°C 3sec.				
Heat cycle	±0.1%	$-55^{\circ}C \Leftrightarrow +150^{\circ}C$ 5 cycle				
Long-term stability	±0.3%	At normal temperature and humidity for 10,000hrs. without load				
Moisture resistance	±0.3%	40°C 90~95%RH 1,000hrs. exposure without load				
Load life	±0.5%	25°C Rated power×1/2 3,000hrs.				
Temperature coefficient	※1 A B C D ±10 ±25 ±50 ±100 ppm/°C	Measured at 25°C and 75°C				

Shape





125 Ambient temperature

150

	Chai	racteristics	Range of val	resistance ues	Rated	Max.	Impulse		Resistance			
Туре	Symbol	Temperature coefficient (ppm/°C)	Min. (MΩ)	Max. (MΩ)	Power (W)	voltage DC (kV)	1.2×50 μsec	L	D	l	d	tolerance (%)
	В	±25	0.1	100								
RU1/4	С	±50	0.1	100	1/4	0.75	1.5	9±1	3±1	38±3	0.6±0.05	
	D	±100	0.1	100								
	В	±25	0.1	100			3	13±1	4.5±1	38±3	0.8±0.05	+0.1 (B)
RU1/2	С	±50	0.1	100	1/2	1.5						
	D	±100	0.1	100								
	В	±25	0.1	100		2	4	14.5±1			0.8±0.05	±0.1 (D)
RU1	С	±50	0.1	100] 1				4.5±1	38±3		±0.25 (C)
	D	±100	0.1	100								
	В	±25	0.1	100								
RU2	С	±50	0.1	100	2	5	10	26.5±1	5.5±1	38±3	1±0.05	
	D	±100	0.1	100								
	B	±25	0.2	100					42±2 5.5±1	38±3	1±0.05	
RU3	C	±50	0.2	100	3	10	20	42±2				
	D	±100	0.2	100								

NOTICE : ** 1 Also consult your local dealer for the availability of resistors with a temperature coefficient of 'A' characteristic.



Superhigh Precision Hermetically Sealed Resistors



The RHA type resistors are hermetically sealed resistors which exhibit excellent long-term stability and moisture resistance even at high resistance value.

FEATURES

TYPE

- Extremely low temperature coefficient.
- Small in size, light weight and high reliability.
- Excellent moisture resistance and long-term stability.
- A wide range of resistance values are stably obtained.

Itom		Characteristics		Test method		
nem	≦100MΩ	≦1GΩ	≦10GΩ	Test method		
Operating temperature range		-30°C~+75°C				
Voltage coefficient	Max	2ppm/V	Max5ppm/V	Rated voltage and 1 /10 of rated voltage		
Resistance to soldering heat	±C).1%	±0.2%	350°C for 3 sec.		
Load life	±C).2%	±0.5%	Rated voltage for 1,000hr.		
Long-term stability	±0.1%	±0.2%	±0.5%	At normal temperature and humidity for 10,000hr.		
Moisture resistance	±0.1%	±0.2%	±0.5%	40°C 90~95%RH for 3,000hr.		
Temperature coefficient	※A B C D ±10 ±25 ±50 ±100 ppm/°C		D S ±100 ±200 ppm/°C	Measured at 25°C and 75°C		

PRODUCTION DATA

Shape





RHA5 10 Max.working voltage (DC kV) RНАЗ 5kV 3 2kV RHA2 1 0.3 20M 83M 200M 0.1 100k 300k 1M ЗM 10M 30M 100M 300M 1G(Ω)

In RHA type, both side of hermetically sealed with solder.

	Characteristics		Range of resistance		Max.		Dimer		Resistance	
Туре		Temperature	values	1	working voltage			(II)		tolerance
	Symbol	coefficient (ppm/°C)	Min. (MΩ)	$\begin{array}{c c} \text{Min.} & \text{Max.} \\ (\text{M}\Omega) & (\text{M}\Omega) \end{array}$		L	D	l	d	(%)
	В	±25	0.1	100			5.1±0.2			
BHA2	С	±50	0.1	500		14±0.5		38±3	0.8±0.05	
	D	±100	0.1	2000	2					±0.1 (B)≦100M
	S	±200	0.1	10000						±0.25(C)≦500M
	В	±25	0.1	100		07 1 0 5	6.5±0.2		1 ±0.05	±0.5 (D)≦1G
DUAD	С	±50	0.1	500	-			38±3		±1(F)
кпаз	D	±100	0.1	2000	5	27±0.5				±2(G) ±5(1)≤10C
	S	±200	0.1	10000						±5(J)≧10G
	В	±25	0.1	100						
D	С	±50	0.1	500	10	40±0 F	05+00	38±3	1 ±0.05	
KHA5	D	±100	0.1	2000	10	4∠≟0.5	0.5-0.2			
	S	±200	0.1	10000						

NOTICE : # Also consult your local dealer for the availability of resistors with a temperature coefficient of "A" characteristic.



E&C

High Voltage Resistors for High Vacuum



The RG type resistors coated with glass for protecting resistive film are usable at high temperature and in high vacuum.

FEATURES

High temperature bake out capability.

•No organic materials and usable in high vacuum.

CHARACTERISTICS

* Data in high vacuum 10-4 Pa

Item	Characteristics	Test method				
Operating temperature range	−50°C~+200°C 400°C(Max.)	(continuity) (24hr continuity)				
Long-term stability	±0.2%	Normal temperature 1000hr				
Load life	±0.5%	25°C, Rated Voltage 1000hr				
Temperature coefficient	±200ppm/°C	25°C~125°C (Reference 25°C)				

PRODUCTION DATA

Shape



Turco	Rang resistanc	ge of ce values	Rated	Max. working	Impulse		Resistance			
туре	Min. (MΩ)	Max. (MΩ)	power (W)	(In the atm.) DC (kV)	1.2×50μs	L	D	l	d	tolerance (%)
RG1/4S	0.1	10	1/4	0.75	1.5	8.0±0.5	2.5±0.2	38±3.0	0.6±0.05	
RG1/2S	0.1	100	1/2	1.5	3.0	10.5±0.5	3.5±0.2	38±3.0	0.6±0.05	±1(F) +2(G)
RG1S	0.1	100	1	2.0	4.0	13.5±0.5	3.5±0.2	38±3.0	0.6±0.05	±5(J)
RG2S	0.1	100	2	5.0	10.0	25.5±1.0	4.6±0.2	38±3.0	0.6±0.05	

NOTICE : Please consult your local dealer for resistor's shape larger, resistance value outside and resistance tolerance narrower.

JAPAN FINECHEM COMPANY, INC.



Power Type High Voltage Resistors



The HVP type resistors are widely used in electron microscopes, X-ray apparatuses, electric precipitators, and many other high voltage equipments.

FEATURES

- ●Usable at 100% of rated power.
- Small temperature coefficient.
- A wide range of resistance values.
- •Long load life and high resistance to changes in the pulse voltage.
- Maintains excellent performance against the adverse effect of insulating oil.

Item	Characteristics	Test method		
Operating temperature range	-25°C~+125°C			
Temperature coefficient	-300~+600ppm/°C	The test date is based on a temperature difference of 50°C (reference temperature, 25°C ; measurement temperature, 75°C)		
Short-time overload	±2.5%	Immersed in oil at 75°C ; rated voltage $\times 2.5applied$ for 5 sec.		
Load life	±5%	Immersed in oil at $75^{\circ}C$; rated voltage applied for 1,000hr.		

PRODUCTION DATA

Shape



Type	Rang resistand	ge of ce values	Rated power	Max. working	Impulse voltage	Dimensions (mm)			Center	Resistance	Holder
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Min. (MΩ)	Max. (MΩ)	(W)	DC (kV)	1.2×50µsec	L	D	н	tap	(%)	Туре
SR30HVP	0.05	2000	5	30	40	100±2	19±0.5	10	φ2		H2
SR60HVP	0.05	5000	10	60	80	200±2	23±0.5	15	M4		H3
SR90HVP	0.05	5000	25	90	120	280±2	30±0.5	20	IVI4	±1 (F) ±2 (G) ±5 (J)	H4
SR120HVP	0.05	5000	50	120	160	370±2	46±0.5	20			H5
SR150HVP	0.05	5000	100	150	200	470±2	46±0.5	25			
SR200HVP	0.1	5000	150	200		600±3	46±0.5	25	M8	±10(K)	
SR250HVP	0.1	5000	200	250		800±3	54±0.5	32			LIC
SR300HVP	0.1	5000	250	300		1000±5	54±0.5	32			по

NOTICE: ** Consult your local dealer for the availability of resistors with resistance values which are outside the range given above and with tolerances other than above.



Variable Resistor Box



The VR100 series are custom-made type resistor box. This type can set up the 11 favorite resistance value.

Type VR100 SERIES

Shape and Dimensions

Connecting terminals	Binding post : Resistance circuit and guard	
Dimensions/Weight	120W×180D×135H(mm)/ ≒1.6kg	*Connecting terminals are possible to change BNC-HV receptacle.

Specifications

Resistance value	A	Long-term stability	Temperature coefficient	Max. circuit voltage & Power consumption range	
100k~1TΩ (Max. 11 values)	Accuracy (%)	(Standard temp. and humidity)	(ppm/°C)		
$100k{\sim}100M\Omega$	$\pm 0.1 {\sim} {\pm}10$	±0.1% at 10,000hr.	±25, ±50, ±100		
$101 M{\sim}500 M\Omega$	+0.5~+10	+0.2% at 10.000br	±50, ±100	Bowor≤0 5W/ mov	
$501M \sim 1G\Omega$	501M~1GΩ		±100	And	
1.1G ~100GΩ			±200	Applied voltage ≦DC2000V max.	
101G ~600GΩ	±1~±10	±1% at 3,000hr.	±400		
$601G{\sim}1T\Omega$			±1,000		

*We can supply VR100 series for 5kV and 10kV.



Precision Resistor Box



The type HVR1000 series are use for the inspection of insulation tester as a standard resistor box.

Type HVR1000 SERIES

Shape and Dimensions

Connecting terminals	Binding post : Resistance circuit and guard
Dimensions/Weight	100W×65D×72H(mm)/ 300g

Specifications

Resistance	Resistance Measurement		Long-term	Temperature coefficient (ppm/°C)	Voltage coefficient (ppm/V)	Max.Input
(Ω) DC Vm (V)		(%)	(% / year)	Reference temperature 25°C Measurement temperature 20°C and 40°C	Measured between Vm and Vm $ imes$ 10	DC(V)
1M	20	±0.05	±0.02	±10	-0.5	200
10M	50	±0.05	±0.02	±10	-0.5	500
100M	100	±0.1	±0.05	±10	-0.5	1,000
1G	100	±0.5	±0.2	±50	-1.0	1,000
10G	100	±0.5	±0.2	±50	-1.0	1,000
100G	100	±0.5	±0.2	±100	-50	1,000
1T	1,000	±1	±0.5	±200	-50 2	1,000
10T	1,000	±2	±1	±500	-100 ⁺⁺²	1,000
100T	1,000	±5	±5	-3,000 MAX.	-500 ⁻⁰²	1,000

NOTICE: %1 Condition : Temperature 25°C ±1 °C, Resistive Humidity 45% ±5 %.

%2 Voltage coefficient measured between Vm and Vm/10.

Decade Resistor Box



The DR20000 series are assembled specially high-stability resistors 1MΩ~1111.11GΩ. These feature make this decade resistor box for use in

production lines as well as in laboratories.

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T	_	Number of dials	Range						
Туре	Hanges		1MΩ	10MΩ	100MΩ	1GΩ	10GΩ	100GΩ	
DR24600 🗆	1M~ 11.110GΩ		0	0	0	0			
DR24700 🗆	10M \sim 111.10 G Ω	4		0	0	0	0		
DR24800 🗆	100M~1111.0 GΩ				0	0	0	0	
DR25600 🗆	1M \sim 111.110G Ω	F	0	0	0	0	0		
DR25700 🗆	10M \sim 1111.10 G Ω	5		0	0	0	0	0	
DR26600 🗆	1M \sim 1111.110G Ω	6	0	0	0	0	0	0	
$\underline{D} \ \underline{R} \ \underline{2} \ \underline{5} \ \underline{6} \ \underline{1} \ \underline{0} \ \underline{- 5} \ \mathbf{K}$									



Connecting terminals 1 : Binding post 2 : The other 3 : Binding post for 10K

0 : MHV type (BNC-HV connector)

Connector Position 0 : The left side of the front side 1 : The right side of the front side 2 : The other

Max. circuit voltage Blank : DC 2,000V - 5K : DC 5,000V -10K : DC10,000V

Please consult your local dealer for custom-made decade resistor box out of our specifications.

Specifications

	DR20000	DR20010 - 5K	DR20030 - 10K			
Accuracy	$\pm0.1\%$ of set value for 1M Ω , 10M Ω , 100M Ω range $\pm0.5\%$ of set value for 1G Ω range $\pm1.0\%$ of set value for 10G Ω , 100G Ω range	\pm 0.2% of set value for 1MΩ, 10MΩ, range \pm 0.5% of set value for 100MΩ range \pm 1.0% of set value for 1GΩ, 10GΩ range \pm 5.0% of set value for 100GΩ range				
Temperature coefficient	$ \begin{array}{ll} 1M\Omega, 10M\Omega, 100M\Omega & range: \pm 25ppm/^{\circ}C \\ 1G\Omega, 10G\Omega & range: \pm 100ppm/^{\circ}C \\ 100G\Omega & range: \pm 200ppm/^{\circ}C \end{array} $	$\begin{array}{ccc} 1M\Omega,10M\Omega & \mbox{range}:\\ 100M\Omega,1G\Omega & \mbox{range}:\\ 10G\Omega & \mbox{range}:\\ 100G\Omega & \mbox{range}: \end{array}$	±25ppm/°C ±100ppm/°C ±200ppm/°C ±1000ppm/°C			
Long-term stability	$\pm0.1\%$ of range for 1M Ω , 10M Ω , 100M Ω (*2) $\pm0.2\%$ of range for 1G Ω (*2) $\pm1.0\%$ of range for 10G Ω , 100G Ω (*3)	$\pm0.2\%$ of range for 1MΩ, 10MΩ, 100MΩ ($\%2$) $\pm0.5\%$ of range for 1GΩ ($\%2$) $\pm1.0\%$ of range for 10GΩ, 100GΩ ($\%3$)				
Power consumption range	0.5	V/Step, 2W max. for overall steps				
Max. circuit voltage	DC 2,000V	DC 5,000V	DC 10,000V			
Insulation resistance	1×10	$^{12}\Omega$ at 500V DC (between panel and circuit)				
Withstand voltage	2,400V DC for 1 minute (between panel and circuit)	6,000V DC for 1 minute (between panel and circuit)	15,000V DC for 1 minute (between panel and circuit)			
Connecting terminals	MHV type (BNC-HV connector) or Binding post	Binding post				
Dimensions(mm) / Weight(kg)	400W×161D×107H/3.2(※4)	430W×350D×100H/7.8	480W×400D×329H/22			
Power		AC85V~250V(50Hz / 60Hz)				

ж1 Please be careful with working voltage of this instrument since it can not be sometimes loaded to Max. circuit voltage because of over the power consumption range in case of set resistance value being small. Standard temperature ($5\sim35^{\circ}$ C) and humidity ($45\sim85\%$) nonload at 10,000hr. Standard temperature ($5\sim35^{\circ}$ C) and humidity ($45\sim85\%$) nonload at 3,000hr. Width for 6 dials is 465mm,weight is 3.8kg.

※2 ※3 ※4

DC Digital High Voltage Meter

The DHM type digital voltmeter has a high input resistance and measures, like electrostatic voltmeters, voltages produced by piezoelectric devices and other high impedance high voltage power generating equipment. This voltmeter offers high accuracy and short measurement time. Moreover, it is small and rugged and virtually unaffected by the environmental conditions. These features make this voltmeter suited for use in production lines as well as in laboratories.

Type DHM (DC) SERIES

Shape/Dimensions/Accuracy

Tupo	Max.measure-	Accuracy %1	Input	Din	Weight		
Type	DC(kV)	±2digits	resistance	Width	Depth	Height	(kg)
DHM-10	±10	±0.2		180	200	185	1.9
DHM-20	±20	±0.2		180	200	220	2.0
DHM-30	±30	±0.5	1060	200	230	379	3.0
DHM-40	±40	±0.5	+1%	200	230	379	3.0
DHM-50	±50	±0.5	<u> </u>	260	330	479	4.5
DHM-60	±60	±0.8		430	330	565	6.0
DHM-100	±100	±1.0		430	330	565	6.0

When the accuracy or shape is to be changed consult your local dealer.
 1 Input voltage≧1kV

Specifications

Resolution	DHM-10~DHM-20 1V DHM-30~DHM-100 10V
External output	1/10,000 divided voltage (Binding post)
Input structure	One-line ground (No measurement can be made if the test signal is floating)
Sampling rate	2 sampling/sec.
Operating temperature range	25°C±15°C
Power	85~260VAC (50Hz/60Hz)

NOTICE: Specifications are subject to change for improvement.

Options

R	Range select %2	10kV range (Resolution 1V) ← Full range (Resolution 10V)
н	Max. and min. value holding function	The max. or min. holding value are displayed on a digital panel meter.
G	GP-IB and USB interface %3	Conform to IEEE-488 (GP-IB interface)
	Input resistance %2	You can choose the input resistance value from 1G\Omega to 100GΩ. $\divideontimes4$
	Resolution 1V %3	Not combine with option R.

%2 Except DHM-10 and DHM-20.

%3 DHM-10 and DHM-20 provide GP-IB interface and resolution 1V as standard.

%4 Accuracy of input resistance more than 50G Ω (>50G Ω) is as follows:

DHM-30,40,50: \pm 1%, DHM-60,100: \pm 1.5%



*Photo is optional equipment.



*Photo is optional equipment.



*Photo is optional equipment.

AC Digital High Voltage Meter

The AC type digital high voltage meter for commercial frequency is small rugged and easy to carry, and digital display makes measurement easy. For these reasons, this voltmeter can be used easily as AC high voltmeter in place of a static voltmeter or a transformer for gauge. Although this size is small, this voltmeter can make measurement to AC 50kV.

Type DHM (AC) SERIES

Specifications	DHM-30A	DHM-50A			
Maximum measurement voltage	AC30kV(RMS)	AC50kV(RMS)			
Frequency for measurement	50Hz/60Hz (sine wave)				
Input resistance	500MΩ±1%	250MΩ±1%			
Resolution	10V	100V			
Accuracy	\pm (2% of reading +2 digits)	\pm (5% of reading +2 digits)			
Input structure	One-line ground (No measurement can be made if the test signal is floatin				
Sampling rate	2sampling/sec.				
Operating temperature range	25°C±10°C				
Power	85~260VAC (50Hz/60Hz)				
Dimensions and Weight	200W×230D×393H /3.7kg 430W×330D×565				



Options

н	Max. and min. value holding function	The max. or min. holding value are displayed on a digital panel meter.
G	GP-IB and USB interface	Conform to IEEE-488 (GP-IB interface)



DHM-30A



DHM-50A

AC / DC Digital High Voltage Meter

The AC/DC type digital high voltage meter has a high input resistance and can measure voltages produced by high voltage generators with a small output capacity. This voltmeter is small, rugged and easy to carry. Moreover, this easy-to-use voltmeter allows highprecision measurement in a short period of time.

Type DHM (A/M) SERIES

Shape, Dimensions

Туре	Max.measurement voltage	Input resistance	Input capacity	Dim	Weight		
				Width	Depth	Height	(kg)
DHM-20A/M	AC20kV (RMS) DC±30kV		≒15pF	200	230	382	4.0
DHM-30A/M	AC30kV (RMS) DC±40kV	10GΩ ±1%	≒25pF	260	330	418	7.5
DHM-50A/M	AC50kV (RMS) DC±60kV		≒8pF	430	330	596	10.0

Specifications

Frequency for measurement	DC and 40Hz \sim 20kHz (sine wave)
Resolution	10V
Accuracy	AC± (1% of reading +2 digits) DC± (0.5% of reading +2 digits) (crest factor≦3, input voltage≧1kV)
External output	1/10,000 Divided voltage (BNC type)
Input structure	One-line ground (No measurement can be made if the test signal is floating)
Sampling rate	2 sampling/sec.
Operating temperature range	25°C±10°C
Power	85~260VAC (50Hz/60Hz)

NOTICE: Specifications are subject to change for improvement.

Options

R	Range select	10kV range (Resolution 1V) ↔ Full range (Resolution 10V)
	-	
н	Max. and min. value holding function	The max. or min. holding value are displayed on a digital panel meter.
G	GP-IB and USB interface	Conform to IEEE-488 (GP-IB interface)
	Resolution 1V	Not combine with option R.



DHM-20A/M *Photo is optional equipment.



DHM-30A/M *Photo is optional equipment.



DHM-50A/M *Photo is optional equipment.

High Voltage Divider

The High voltage divider, excepting the display section, retains the advantages of the E&C's digital high voltage meter and allows full use of your multi-meter. Furthermore, it can be monitored at a distance through use of a cable. Please consult your local dealer for custom-made high voltage divider out of our specifications.

Standard-class High Voltage Divider

Type DVI-100S

USp	ecifications
F	

Туре	Rated Voltage	Accuracy	Input Resistance	Output Resistance	Division Ratio	Dimensions (mm)
		1kV∼50kV ±0.1%	.V 10GΩ 10kV	1MΩ	10,000:1	4003/4003/50011
01-1003	DO - 100KV	±100kV 50kV~100kV ±0.2%**		10MΩ	1,000:1	430/430/5300

NOTICE: Specifications are subject to change for improvement. NOTICE: % Please consult your local dealer for accuracy±0.1% (50kV~100kV).

High Voltage Divider

Type DVI Series

Specifications								
Туре	Rated Voltage	Accuracy	Input Resistance	Output Resistance	Division Ratio	Dimensions (mm)		
DVI-10	DC±10kV	±0.2%	10GΩ	1MΩ	10,000:1	200×230×170H		
DVI-20	DC±20kV	±0.2%	10GΩ	1MΩ	10,000:1	200×230×205H		
DVI-30	DC±30kV	±0.5%	10GΩ	1MΩ	10,000:1	320×330×340H		
DVI-40	DC±40kV	±0.5%	10GΩ	1MΩ	10,000:1	320×330×340H		
DVI-100	DC±100kV	±1%	10GΩ	1MΩ	10,000:1	430×430×526H		
DVI-150	DC±150kV	±1%	1GΩ	10kΩ	100,000:1	600×600×1,340H		
DVI-200	DC±200kV	±1%	1GΩ	10kΩ	100,000:1	600×600×1,340H		

NOTICE: % Specifications are subject to change for improvement.

Unit Type High Voltage Divider

Type DVI-50-X-Series

Specifications

Туре	Rated Voltage	Accuracy	Input Resistance	Output Resistance	Division Ratio	Dimensions (mm)
DVI-50-X*	DC±50XkV	χ=1±0.5% χ≧2±1.0%	xGΩ	10 χ k Ω	100,000:1	400×400×(168+113χ)H
DVI-50-1	DC±50kV	±0.5%	1GΩ	$10k\Omega$	100,000:1	400×400×281H
DVI-50-3	DC±150kV	±1%	3GΩ	$30 k\Omega$	100,000:1	400×400×507H

NOTICE: Specifications are subject to change for improvement.

NOTICE: % The χ is a number of integer 1 to 10. The unit is extensible in number. (50kV/unit)







High Voltage Probe

This high voltage probe in connection with oscilloscope can be used to measure the waveform of high voltage. Inner site of the body is filled with isoration gas for insulation.

Type PG Series

●Specifications									
Item		P50-G	P100-G	P100-GL	P150-G	P150-GL			
Max. input v	roltage			1					
DC or	Insulator is in oil	00101	80kV	8014)/	100kV	100kV			
АСр-р 💥	Insulator is in air	SUKV	60kV	OUKV	60kV				
Impulse (duty factor ≦0.01,	Insulator is in oil	E0k)/	110kV	1106/	150kV	150kV			
pulse width≦1msec	Insulator is in air	SUKV	80kV	TTUKV	80kV				
Frequency b	bandwidth	DC~50MHz, -3dB							
Rise time		≦10nsec.							
Division ratio	Probe only		2,000:1±5%	3,000:1±5%					
DIVISION TALIO	connect with adapter		5,000:1±5%	5,000:1	±5%				
Input resista	ince		1G $\Omega\pm5\%$	$2G\Omega\pm5\%$					
Input capaci	itance	≒10pF							
Inner gas		SF ₆							
Inner gas pr	essure	0.25~0.3MPa							
Output cable	9	≒4m (Fig.4)※							
Condition of us	able oscilloscope	Input resistance $: 1M\Omega\pm5\%$, Input capacitance $: 7{\sim}45$ pF							
Dimensions		Fig.1	Fig.2	Fig.3	Fig.2	Fig.3			
Weight		4.2kg	6.3kg	7.0kg	6.3kg	7.0kg			

NOTICE: 1 % On condition continuous wave overs 100kHz, ACp-p voltage will go down.

2% Division ratio(5,000 : 1, 10,000 : 1) can be manufactured in probe only.

3% Input resistance 10G Ω can be manufacutured.

4% The optional parts : Adapter,Probe stand,Carrying case.

5% Output cable ≒10m can be manufactured. (Rise time and frequency band decrease as the cable length.)

Terminal (M5)

Bushing





5

605

Flange







Fig.3

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Fig.4



*Probe stand is optional parts.



