

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Hirose Electric Co Ltd](#)

[MS-145NB](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

2007/03/03 01:38:59 ctribble

DRAWING FOR REFERENCE: This is subject to change without notice

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-30℃ TO +85℃		STORAGE TEMPERATURE RANGE	-30℃ TO +85℃ NO CONDENSATION		
	POWER	2 W ※2		CHARACTERISTIC IMPEDANCE	50Ω		
	FREQUENCY RANGE	DC TO 2500 MHz		OPERATING HUMIDITY RANGE	% TO 90%		
SPECIFICATIONS							
ITEM		TEST METHOD		REQUIREMENTS		QT	AT
CONSTRUCTION							
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		×	×
MARKING		CONFIRMED VISUALLY.					
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE		100mA DC MAX.		CENTER 75 mΩ MAX. OUTER 50 mΩ MAX.		×	×
INSULATION RESISTANCE		100V DC.		1000 MΩ MIN.		×	-
VOLTAGE PROOF		100V AC FOR 1 min.		NO INSULATION DETRUCTION		×	×
V.S.W.R. ※1	FREQUENCY DC TO 2000 MHz		1.3 MAX		×	-	
	FREQUENCY 2000 TO 2500 MHz		1.5 MAX				
INSERTION LOSS ※1	FREQUENCY DC TO 1000 MHz		0.3 dB MAX.		×	-	
	FREQUENCY 1000 TO 2000 MHz		0.4 dB MAX.				
	FREQUENCY 2000 TO 2500 MHz		0.6 dB MAX.				
ISOLATION ※1	FREQUENCY DC TO 1000 MHz		20 dB MIN.		×	-	
	FREQUENCY 1000 TO 2000 MHz		14 dB MIN.				
	FREQUENCY 2000 TO 2500 MHz		12 dB MIN.				
MECHANICAL CHARACTERISTICS							
DURABILITY ※1		10000 TIMES INSERTIONS AND EXTRACTIONS. AT THE CONDITION A: DC ~ 2000MHz B: 2000MHz ~ 2500MHz		1) CONTACT RESISTANCE : CENTER :100 mΩMAX. OUTER : 75 mΩMAX. 2) V.S.W.R. A : 1.5 MAX B : 1.7 MAX 3)INSERTION LOSS A : 0.5 dB MAX B : 0.7dB MAX 4)MUST NOT HAVE HEAVY CORROSION.		×	-
VIBRATION		FREQUENCY : 10 TO 55 Hz SINGLE AMPLITUDE : 0.75mm 1 CYCLE : 5 min , 10 CYCLES FOR EACH 3 DIRECTIONS.		1) NO ELECTRICAL DISCONTINUITY OF 10μs. 2) CONTACT RESISTANCE : CENTER :100mΩMAX. OUTER : 75 mΩMAX. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		×	-
SHOCK		ACCELERETION : 490 m/s ² DURATION : 11ms , HALH SINE WAVE 3 TIMES FOR EACH 3 DIRECTIONS.		1) NO ELECTRICAL DISCONTINUITY OF 10μs. 2) CONTACT RESISTANCE : CENTER :100mΩMAX. OUTER : 75 mΩMAX. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		×	-
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED	DATE
△							
REMARK				APPROVED	K.J. KAWAMURA	06.05.17	
※1 STD VALUE NOMAL CLOSED : RECEPTACLE NOMAL OPEN : RECEPTACLE + PLUG				CHECKED	RZ. KANO	06.05.17	
※2 TO BE SATISFIED SPECIFICATION WITH INPUT POWER FOR 4W FOR 1/8 DUTY.				DESIGNED	YH. MATSUO	06.05.16	
Unless otherwise specified, refer to JIS C 5402.				DRAWN	YH. MATSUO	06.05.16	
Note QT:Qualification Test AT:Assurance Test ×:Applicable Test				DRAWING NO.		ELC4-180563-00	
HRS	SPECIFICATION SHEET			PART NO.		MS-145NB	
	HIROSE ELECTRIC CO., LTD.			CODE NO.		CL358-0223-7-00	
						△	1/2

2007/03/03 01:38:59 ctribble

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SPECIFICATIONS				
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 →15~35 → 85 →15~35 °C TIME 30 → 2~3 → 30 → 2~3 min TEST UNDER 5 CYCLES AND LEAVE IT FOR ONE HOUR OR TWO.	1)CONTACT RESISTANCE: CENTER : 100 mΩ MAX OUTER : 75 mΩ MAX. 2)INSULATION RESISTANCE. 10 M Ω MIN 3)NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90 ~95 %, 96h. THEN LEAVE IT FOR ONE HOUR OR TWO IN THE AMBIENT TEMPERARURE AND HUMIDITY.	1)CONTACT RESISTANCE: CENTER : 100 mΩ MAX. OUTER : 75 mΩ MAX. 2)INSULATION RESISTANCE. 10 M Ω MIN 3)NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
SALT SPRAY (CORROSION)	AFTER 5±1% SALT WATER SPRAY FOR 48 HOURS. TEMPERATURE 35 ± 2 °C	1)CONTACT RESISTANCE: CENTER : 100 mΩ MAX. OUTER : 75 mΩ MAX 2)MUST NOT HAVE HEAVY CORROSION	x	—
RESISTANCE TO SOLDER HEAT	SOLDER TEMPERATURE 260°C FOR IMMERSION DURATION 10 sec.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
Note QT:Qualification Test AT:Assurance Test ×:Applicable Test		DRAWING NO.	ELC4-180563-00	
SPECIFICATION SHEET		PART NO.	MS-145NB	



2007/03/03 01:39:00 ctribble

FORM HD0011-2-2

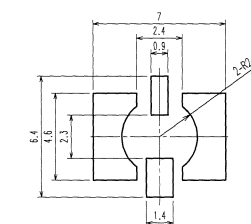
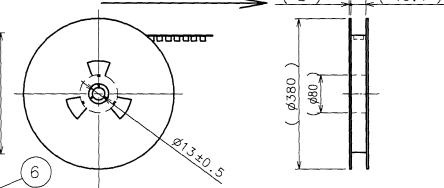
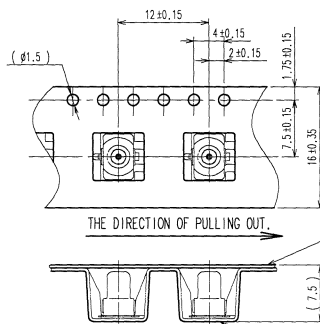
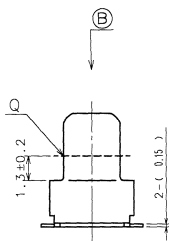
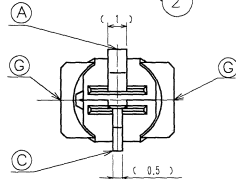
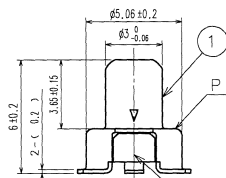
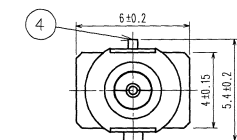
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TO
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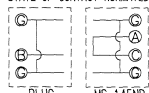
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NOTE 1. USE THIS PRODUCT WITH MS-145-HRMJ/MS-145-HRMP-A/MS-145-C(LP)-A/MS-145-C(LP)-1 AND EQUIVALENT CONTACT MATED.
FOR THE USE OF MS-145-HRMJ, MS-145-C(LP)-A AND EQUIVALENT, PUSH THEM ON THE POSITION P.
FOR THE USE OF MS-145-C(LP)-1, PUSH THIS ON THE POSITION Q.
POSITION Q MUST BE NOMINAL STOP POSITION AS YOUR SET DESIGN.
USE WITH THE STRUCTURE WHICH ALWAYS KEEP IN TOUCH TO THE POSITION P OR Q, OR WITH LOCK STRUCTURE.

2. COAXIAL SWITCH CIRCUIT SHALL BE AS FOLLOWS:

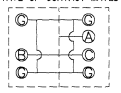
STATE OF CONTACT NONMATED



PLUG

MS-145NE

STATE OF CONTACT MATED



3. LEAD CO-PLANARITY TO BE 0.15 MAX.
4. THIS PRODUCT IS IMPOSSIBLE TO WASH.
5. AVOID SHOCKING TO THIS PRODUCT DIRECTLY.

REVISIONS TO THE STATE OF TEXAS					REVISIONS TO THE STATE OF TEXAS				
COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
▲				..	▲				..
▲				..	▲				..

TAPE AND REEL PACKING (FREE)

1000 PIECES PER REEL.

THE DIRECTION OF PULLING OUT.

RECOMMENDED LAND PATTERN DIMENSION OF PWB

3	BERYLLIUM COPPER	OTHERS: NICKEL PLATING	5	PS-E	TOP COVER TAPE	
		SMT AREA: GOLD PLATING CONTACT AREA: GOLD PLATING	5	PS-E	EMBOSSED CARRIER TAPE	
2	POLYAMIDE	BLACK UL94HB	4	BERYLLIUM COPPER	OTHERS: NICKEL PLATING	
1	PHOSPHOR BRONZE	GOLD PLATING			SMT AREA: GOLD PLATING CONTACT AREA: GOLD PLATING	
NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS	
CODE NO. (OLD)			DRAWN	DESIGNED	CHECKED	APPROVED
			<i>Y. Matsuo</i> 06.5.16	<i>Y. Matsuo</i> 06.5.16	<i>P. Kono</i> 06.5.17	<i>Y. Yamamoto</i> 06.5.17
DRAWING NO.			PART NO.		MS-145NB	
EDC3-180563			CODE NO.		CL358-0223-7	
 SCALE 1:5			 HIROSE ELECTRIC CO., LTD.			
UNITS			1			

FORM NO. 229