

1 2 3 4 5 6 7 8

A A

B B

C C

D D

E E

F F

G G

H H

I I

J J

K K

L L

M M

N N

O O

P P

Q Q

R R

S S

T T

U U

V V

W W

X X

Y Y

Z Z

13 THE STATE WHICH STUCK THE CAP FOR ADSORPTION (2:1)

11 0.1 11

12 POINT M 12

10 P 10

14 SPECIFIED PCB LAYOUT
TOLERANCE $\pm 0.05\text{mm}$

14 SPECIFIED STENCIL PLATE
THICKNESS: 0.1~0.12mm
TOLERANCE $\pm 0.03\text{mm}$

2 FREE AREA OF COPPER-FOIL AND RESIST

13 VACUUM CAPFLAT THAT CAN BE ORIENTED IN ANY DIRECTION

14 ALL LEAD LAYOUT IS THE SAME AS MS-156NB WHICH IS CONVENTIONAL PRODUCT, THEREFORE THE SPECIFIED MOUNTING CONDITION OF MS-156NB WHICH SHOWS DIMENSION CORRESPOND TO EACH \times NUMBER OF THE FOLLOWING TABLE IS ALSO AVAILABLE.

15 VACUUM CAP IS NOT APPLICABLE FOR HALOGEN FREE DUE TO THE SUB-MATERIAL FOR MOUNTING.

1 Note 1 Please do not change the specified layout of the PCB dimension and the layout of the stencil plate dimension and thickness otherwise could not be responsible for the solderability of the product.

2 When copper-foil and resist are designed on the area where underneath the product, Hirose can not guarantee the product.

3 Manual soldering could not be accepted on this product to prevent solder wicking and flux penetration.

4 The bridges should be designed with a sufficient distance from MS-156HF(02) to prevent getting the cutting micro chips into the contact area.

5 Do not use this product as an interface, this product is only for circuit inspection.

6 Please refrain from using the product in environments specifically affected by excessive vibration, shock, dust, high humidity, gases, very high temperatures and very low temperatures such as outdoor equipment. It might cause degradation or destruction of the product. Even if it endures during a short time, long time qualification is not guaranteed.

7 Plugs can be roughly classified to two types.
- For mass production line automatic check (Press down type)
- For manual check (With retentive lock) : Unable to be used at production line.

8 Do not use a washing process.

9 Circuit shall be as follows.

10 For use of this product, be sure to put contact area of plug on position P perpendicularly.

11 Lead coplanarity is to be 0.1mm MAX.

12 Point M indicates the center of the mating portion.

13 Vacuum capflat that can be oriented in any direction.

14 All lead layout is the same as MS-156NB which is conventional product, therefore the specified mounting condition of MS-156NB which shows dimension correspond to each \times number of the following table is also available.

15 Vacuum cap is not applicable for halogen free due to the sub-material for mounting.

13 ~Example of PCB design~ (Layout of MS-156HF(02) and Bridge)

14 ~No good design~

15 ~Recommended design~

16 In this position where the bridge is close to MS-156HF(02), there is possibility of causing dysfunction caused by what the cutting micro chips get into MS-156HF(02) when cutting PCB.

17 The cut position should be designed with a sufficient distance from MS-156HF(02).

18 Unmated condition

19 Mated condition

20 MS-156 Plug MS-156HF(02) MS-156 Plug MS-156HF(02)

21 10:1 1 2 DIS-J-000909 DS. YAMAKOSHI TY. OZAKI 08.09.27

22 APPROVED : K.J. KAWAMURA 08.03.17 DRAWING NO. EDC3-180639-06

23 CHECKED : TY. OZAKI 08.03.17 PART NO.

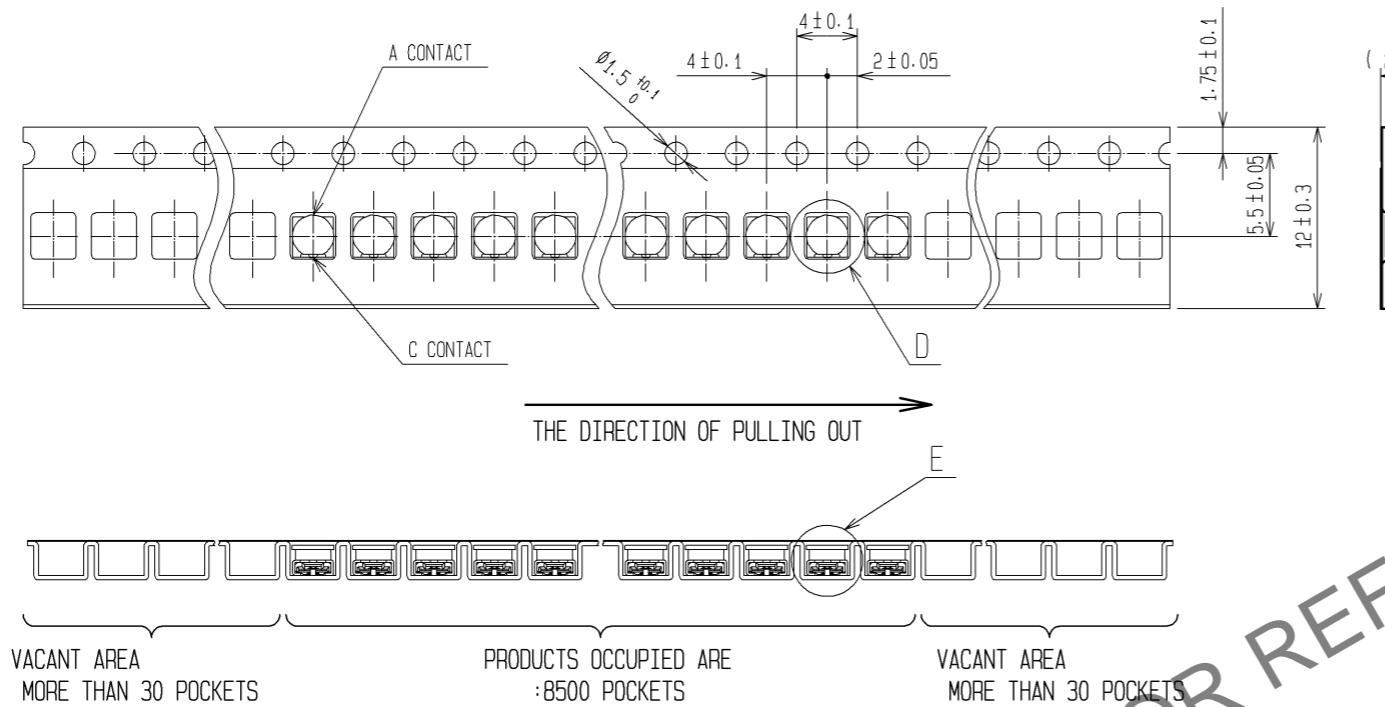
24 DESIGNED : DS. YAMAKOSHI 08.03.17 MS-156HF(02)

25 DRAWN : DS. YAMAKOSHI 08.03.17 CODE NO. CL358-0238-4-02

26 HRS HIROSE ELECTRIC CO., LTD.

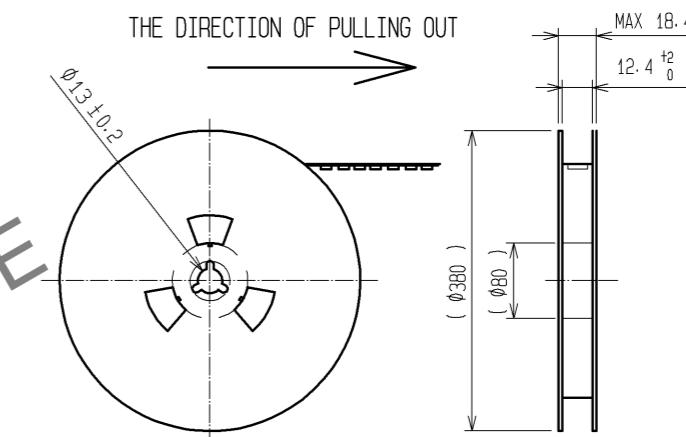
27 1 2

PACKAGING SPECIFICATION

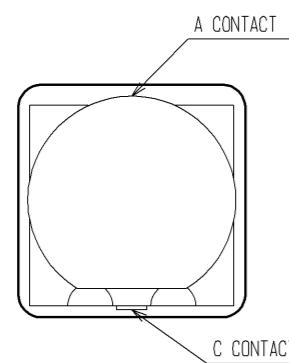


REEL DIMENSIONS(FREE)

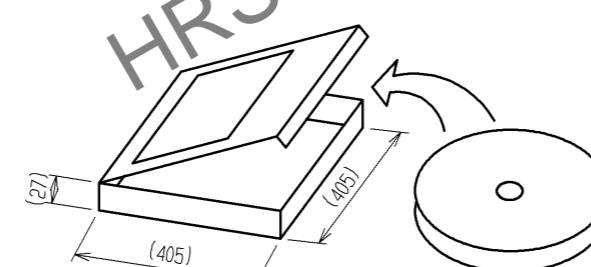
8500 PIECES PER REEL



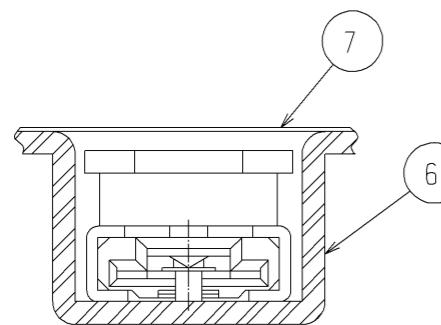
D (10:1)



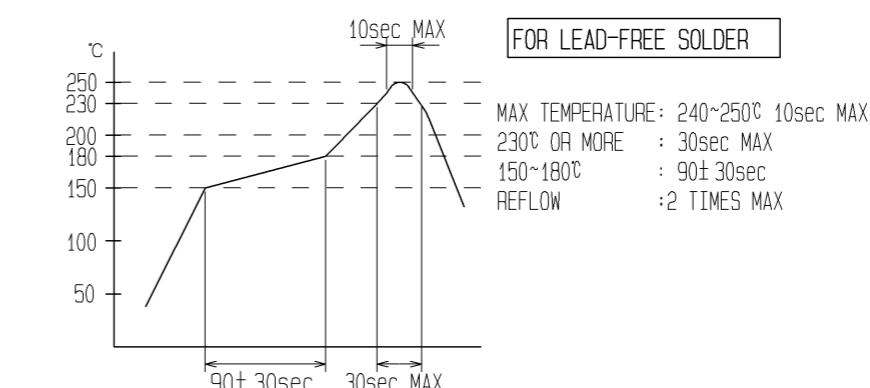
OUTER PACKAGING CASE (FREE)



E (10:1)



RECOMMENDED REFLOW TEMPERATURE PROFILE



UNITS	SCALE	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	2 : 1	1	DIS-J-000909	DS. YAMAKOSHI	TY. OZAKI	08.09.27
			APPROVED : K.J. KAWAMURA 08. 03. 17	DRAWING NO.	EDC3-180639-06	
			CHECDED : TY. OZAKI 08. 03. 17	PART NO.	MS-156HF(02)	
			DESIGNED : DS. YAMAKOSHI 08. 03. 17	CODE NO.	CL358-0238-4-02	
			DRAWN : DS. YAMAKOSHI 08. 03. 17			

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