APPLICABLE STANDARD				
RATING	FREQUENCY RANGE	0.045 TO 11 GHz	STORAGE TEMPERATURE RANGE	-30°C TO +70°C
	POWER	2 W	CHARACTERISTIC IMPEDANCE	50Ω
	OPERATING TEMPERATURE RANGE	-40°C TO +85°C	OPERATING HUMIDITY RANGE	TO 90% (NO CONDENSATION)

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	×	×
MARKING	CONFIRMED VISUALLY.	ACCORDING TO DRAWING.	—	—
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	100 mA MAX (DC OR 1000 Hz).	CENTER CONTACT 100 mΩ MAX. OUTER CONTACT 100 mΩ MAX.	×	×
INSULATION RESISTANCE	100 V DC.	1000 MΩ MIN.	×	—
VOLTAGE PROOF	100 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	×	×
V.S.W.R. [1]	FREQUENCY DC TO 2.5 GHz	1.2 MAX	×	—
	FREQUENCY 2.5 TO 6.0 GHz	1.3 MAX		
	FREQUENCY 6.0 TO 11.0 GHz	1.5 MAX		
INSERTION LOSS [1]	FREQUENCY DC TO 2.5 GHz	0.15dB MAX.	×	—
	FREQUENCY 2.5 TO 6.0 GHz	0.20dB MAX.		
	FREQUENCY 6.0 TO 11.0 GHz	0.40dB MAX.		
ISOLATION [2]	FREQUENCY DC TO 3.0 GHz	20 dB MIN.	×	—
	FREQUENCY 3.0 TO 6.0 GHz	15 dB MIN.		
	FREQUENCY 6.0 TO 11.0 GHz	12 dB MIN.		
MECHANICAL CHARACTERISTICS				
MECHANICAL OPERATION	100 TIMES INSERTIONS AND EXTRACTIONS.	1) CONTACT RESISTANCE CENTER CONTACT: 100mΩMAX. OUTER CONTACT: 100mΩMAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
VIBRATION	FREQUENCY 10 TO 55 Hz SINGLE AMPLITUDE 0.75 mm OR 98 m/s^2 1 octave/min , 10 CYCLES FOR EACH 3 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 1μs. 2) CONTACT RESISTANCE CENTER CONTACT: 100mΩMAX. OUTER CONTACT: 100mΩMAX. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
SHOCK	ACCELERATION : 490 m/s^2 DURATION : 11 ms , HALF SINE WAVE 3 BOTH AXIAL DIRECTIONS, 3 TIMES EACH		×	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
A					

REMARK

RoHS COMPLIANT

Note [1] This spec is only for receptacle .
[2] Refer to the spec sheet of each plug regarding the mated condition.
This spec is adapted for any plug.
Unless otherwise specified, refer to IEC-60512.

APPROVED	MH. YAMANE	13.11.29
CHECKED	NK. NINOMIYA	13.11.28
DESIGNED	TS. NAKAGAWA	13.11.28
DRAWN	TS. NAKAGAWA	13.11.28

Note QT:Qualification Test AT:Assurance Test ×:Applicable Test

DRAWING NO. ELC4-350543-00

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

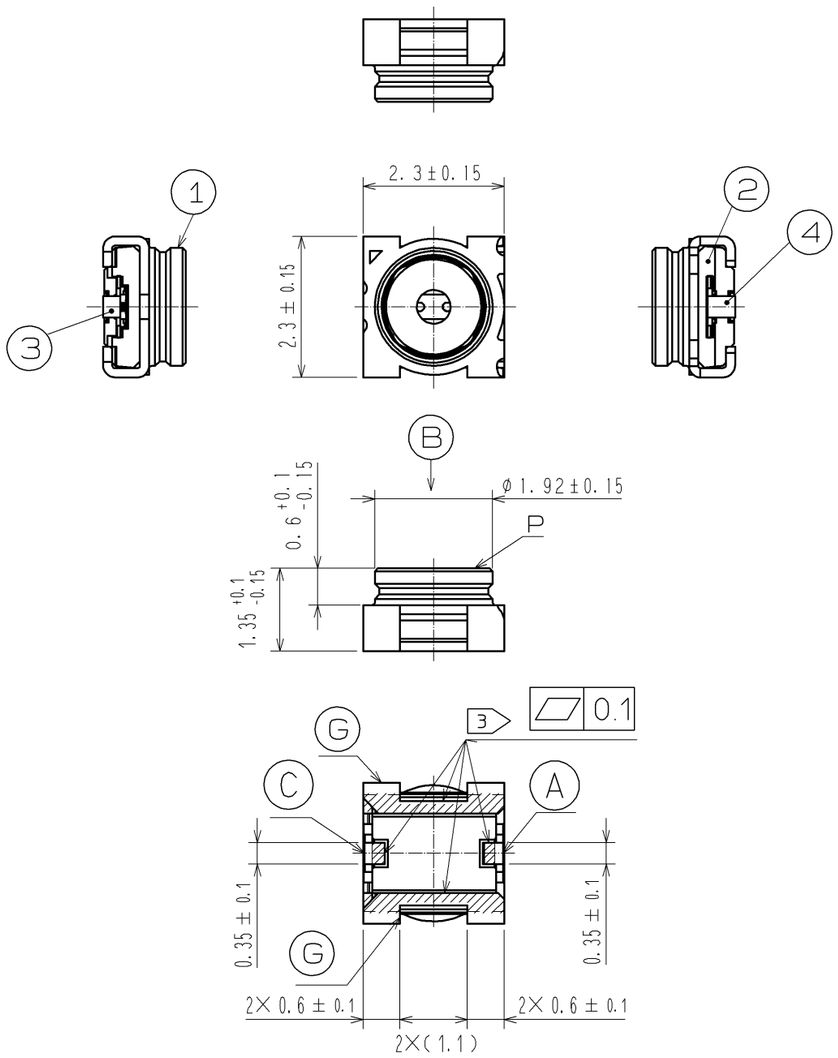
PART NO. MS-156C3

CODE NO. CL358-0340-0-00 A

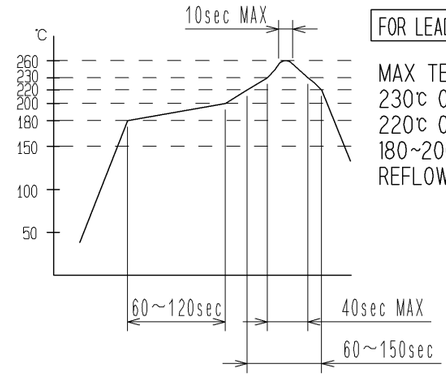
FORM HD0011-2-1

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE −55 → 5−35 → +85 → 5−35 °C TIME 30 → 2−3 → 30 → 2−3 min. UNDER 100 CYCLES AND LEAVE IT FOR ONE HOUR OR TWO.	1) CONTACT RESISTANCE CENTER CONTACT: 100mΩMAX. OUTER CONTACT: 100mΩMAX. 2) INSULATION RESISTANCE: 10 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
DRY HEAT	EXPOSED AT +85℃, 96h.	1) CONTACT RESISTANCE CENTER CONTACT: 100mΩMAX. OUTER CONTACT: 100mΩMAX. 2) INSULATION RESISTANCE: 10 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
COLD	EXPOSED AT -55℃, 96h.	1) CONTACT RESISTANCE CENTER CONTACT: 100mΩMAX. OUTER CONTACT: 100mΩMAX. 2) INSULATION RESISTANCE: 10 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
DAMP HEAT (STEADY STATE)	EXPOSED AT +40℃, 90～95%, 96h. THEN LEAVE IT FOR ONE HOUR OR TWO IN THE AMBIENT TEMPERATURE AND HUMIDITY.	1) CONTACT RESISTANCE CENTER CONTACT: 100mΩMAX. OUTER CONTACT: 100mΩMAX. 2) INSULATION RESISTANCE: 10 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
RESISTANCE TO SOLDER HEAT	SOLDER TEMPERATURE 260℃ FOR IMMERSION DURATION 10 sec .	1) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—



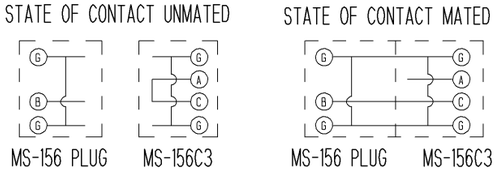
RECOMMENDED REFLOW TEMPERATURE PROFILE



FOR LEAD-FREE SOLDER

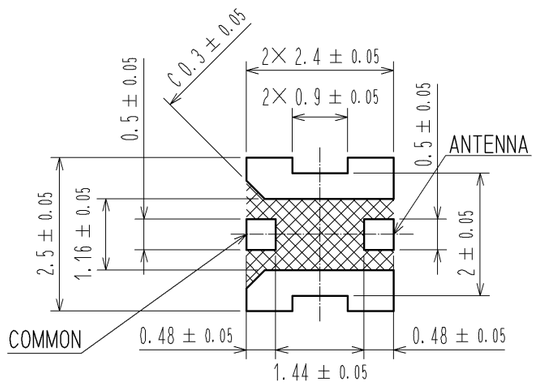
MAX TEMPERATURE : 260℃ 10sec MAX
230℃ OR MORE : 40sec MAX
220℃ OR MORE : 60~150sec
180~200℃ : 60~120sec
REFLOW : 3 TIMES MAX

NOTE 1. Circuit shall be as follows.



2. For use of this product, be sure to put contact area of plug on position P perpendicularly.
3 Lead co-planarity is to be 0.1mm MAX.
4. Do not use the washing process.
5 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.
6. This product is intended to be used for circuit inspection only. Consult us if any other application is considered.
7. Do not use hand soldering for mounting of MS-156C3.

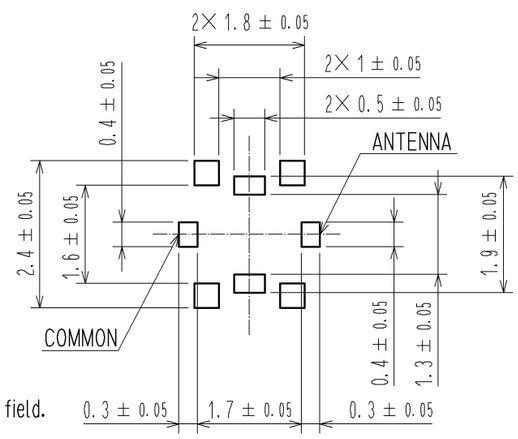
5 SPECIFIED PCB LAYOUT



:This area must be free of conductive traces and resist field.

5 SPECIFIED STENCIL PLATE

THICKNESS : 0.1mm



RoHS COMPLIANT

HALOGEN FREE COMPLIANT

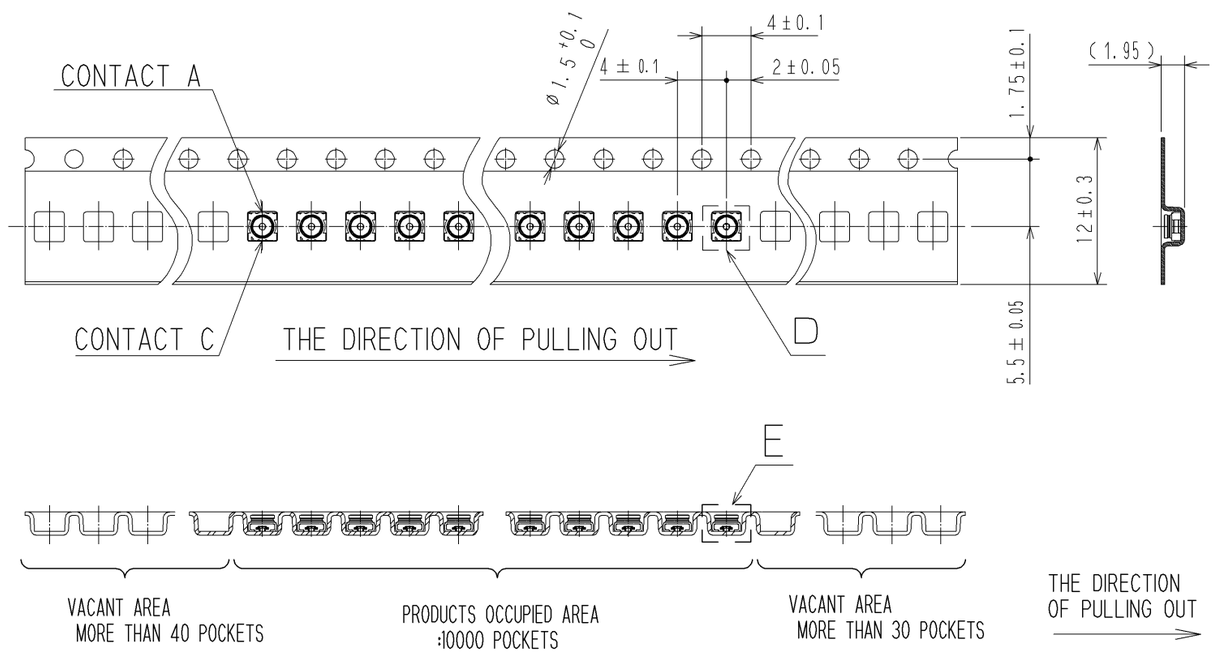
NO.	MATERIAL	FINISH , REMARKS	NO.	MATERIAL	FINISH , REMARKS
3	CU-NI-SI-ALLOY	SELECTIVE GOLD PLATING	6	PET	
2	PA-M		5	PS	
1	PHOSPHOR BRONZE	GOLD PLATING 2	4	PHOSPHOR BRONZE	SELECTIVE GOLD PLATING

UNITS	SCALE		COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	10 : 1	2	1	DIS-D-003384	DS. YAMAKOSHI	NK. NINOMIYA	14.09.02

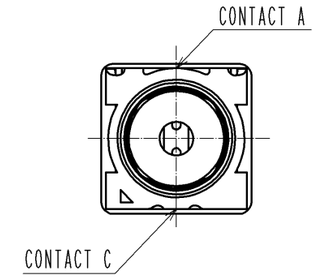
HIROSE ELECTRIC CO., LTD.

APPROVED	MH. YAMANE	13.11.29	DRAWING NO.	EDC3-350543-00
CHECED	NK. NINOMIYA	13.11.28	PART NO.	MS-156C3
DESIGNED	TS. NAKAGAWA	13.11.27	CODE NO.	CL358-0340-0-00 2 1/2
DRAWN	TS. NAKAGAWA	13.11.27		

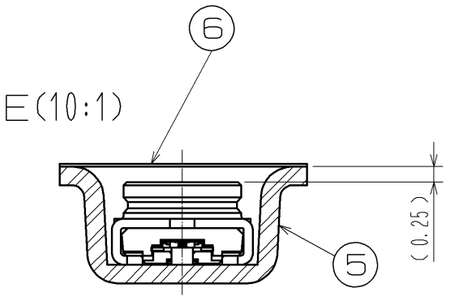
PACKAGING SPECIFICATION



D(10:1)

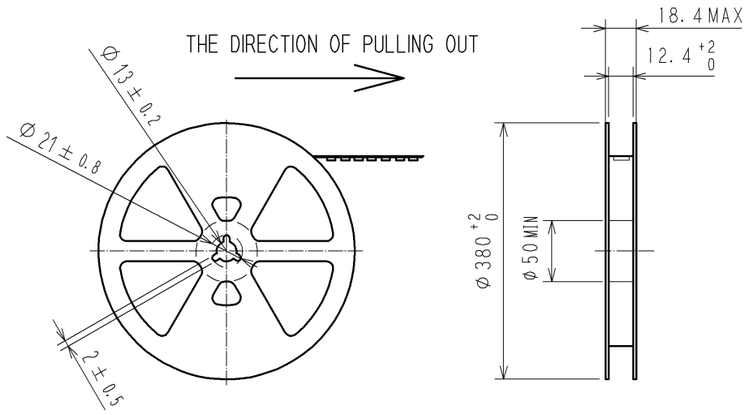


E(10:1)

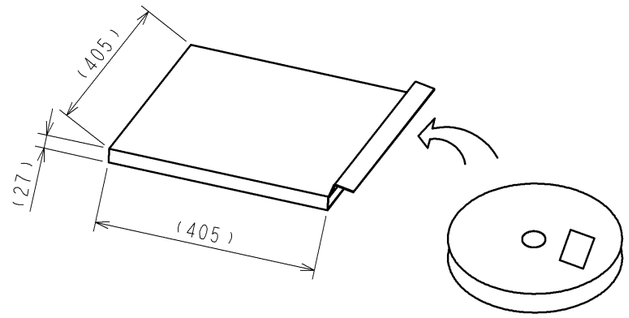


REEL DIMENSIONS(FREE)

10000 PIECES PER REEL



OUTER PACKAGING CASE(FREE)



HRS	DRAWING NO.	EDC3-350543-00
	PART NO.	MS-156C3
	CODE NO.	CL358-0340-0-00 △2 2/2