
APPENDIX A3.2.3-8

HOLDER MECHANICAL DRAWINGS

Confidentiality Statement

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CAD structure for the Holder

Level	Drawing reference	Revision	Product Type	Description
0	064_1001	8A	Assembly	Top level assembly
. 1	064_1005	7A	Assembly	Heater frame assembly
.. 2	064_1206	2A	Assembly	Overmolded Heater
... 3	064_0061	2A	Part	Heater
.. 2	064_1010	6	Part	Holder battery
.. 2	064_1205	1A	Part	Frame Flex B
.. 2	064_0012	1	Part	Heater wire
. 1	064_1004	4A	Assembly	Power Button assembly
.. 2	064_0006	3A	Part	Light Guide
.. 2	064_0015	4	Part	Power Button Body
. 1	006_0001	6B	Part	Front Housing
. 1	064_0002	2	Part	Extractor
. 1	064_0003	6B	Part	Rear Housing
. 1	064_0005	9C	Part	Middle Part
. 1	064_0011	3B	Part	Plastic Ring
. 1	064_0017	1B	Part	Staple



9		10		11		12	
REVISION		DESCRIPTION	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY
6B	(b) (4)		S.C. AW	9/8/2015			
7A	b		S.C. AW	10/1/2015			
8A)		S.C. AW	9/21/2015			

(b) (4)

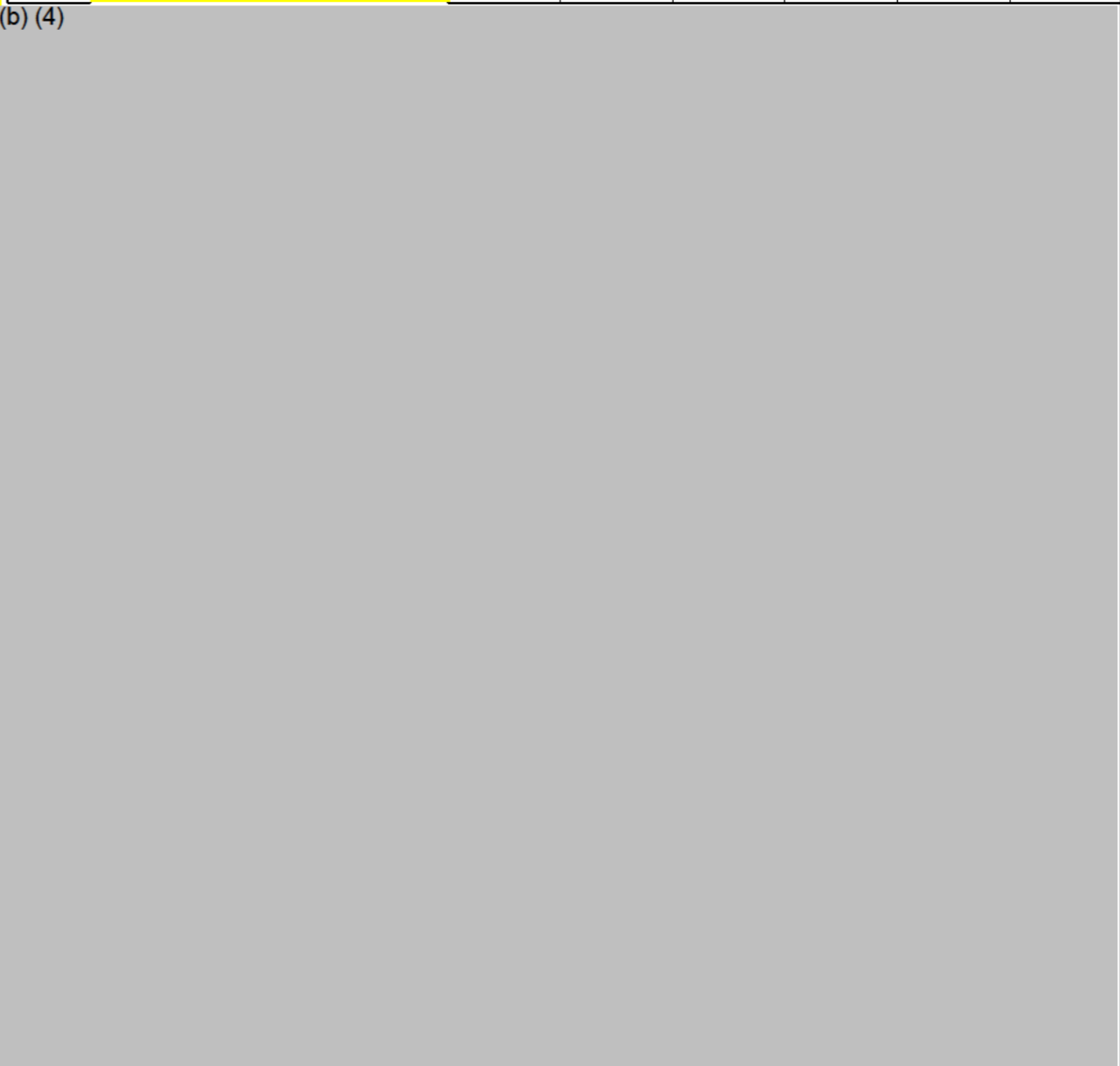
- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009.
- 2. FOR UNTOLERANCED FEATURES, GENERAL TOLERANCES APPLIES. REFER TO 3D CAD FOR UNTOLERANCED FEATURES BASIC DIMENSION.
- 3. ALL INSPECTION DIMENSIONS AND STATISTICAL TOLERANCES MUST MEET PROCESS CAPABILITY OF (b) (4)
- 4. REFER TO SEPARATE CMF DATASHEET FOR COSMETIC REQUIREMENT.
- 6. PART MUST COMPLY TO LATEST REVISION OF ROHS AND REACH REQUIREMENT.

NO.	PART DESCRIPTION	QTY
1	064_0003 Rear housing	1
2	064_0011 Plastic ring	1
3	064_0001 Front housing	1
4	064_0002 Extractor	1
5	064_0005 Middle part	1
6	064_1004 Power button	1
7	064_1005 Heater Frame Assy	1
8	064_0017 Staple	1
9	LOCTITE 5088 (b) (4)	

ADDITIONAL DRAWING TO 3D CAD DATA		3D FILES	064_1001 TSH FPD 4.4 8A.step 064_1001 TSH FPD 4.4 8A.dxf	2D FILES	064_1001 TSH FPD 4.4 8A.pdf 064_1001 TSH FPD 4.4 8A.dxf
TITLE		TSH FPD 4.4			
REMARK		SCALE		FORMAT	1ST ANGLE
RESPECT PROTECTION NOTICE ISO 16016		PROJECT: TSH 4.4		2:1	A2
		ALL DIMENSIONS IN mm		DRAWING NO	SHEET(S) 1 OF 1
				064_1001	REVISION 8A
				MODEL NAME	064_1001 TSH FPD 4.4
				FILE NAME	064_1001 TSH FPD 4.4



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1	2	3	4	5		7			8			
(b) (4)						REVISION	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
						4A	S.C. AW	1/10/2015				
						4B	S.C. AW	24/2/2016				
						5A	J J.HOW	9/11/2016	S.C.AW	9/11/2016		
						6A	J J.HOW	30/11/2016	S.C.AW	30/11/2016		
						7A	J.J.HOW	17/4/2017	S.C.AW	17/4/2017		



NO.	PART DESCRIPTION	QTY
1	ASSY F43C1 Contact PCB	1
2	064_1205 Frame Flex B	1
3	064_1206 Overmolded Heater	1
4	064_0012 Heater wire	2
5	ASSY F43H1 Heater control PCB	1
6	064_1010 Battery TSH	1

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5-2009.
2. FOR UNTOLERANCED FEATURES, GENERAL TOLERANCES APPLIES. REFER TO 3D CAD FOR UNTOLERANCED FEATURES BASIC DIMENSION.
3. ALL INSPECTION DIMENSIONS AND STATISTICAL TOLERANCES MUST MEET PROCESS CAPABILITY OF (b) (4)
4. REFER TO SEPARATE CMF DATASHEET FOR COSMETIC REQUIREMENT.
6. PART MUST COMPLY TO LATEST REVISION OF ROHS AND REACH REQUIREMENT.

ADDITIONAL DRAWING TO 3D CAD DATA		3D FILES	064_1005 Heater Frame Assy 7A step -		2D FILES	064_1005 Heater Frame Assy 7A pdf 064_1005 Heater Frame Assy 7A dxf -		
TITLE HEATER FRAME ASSY				SCALE 2:1		FORMAT A3		1ST ANGLE 
				REMARK		ALL DIMENSIONS IN mm		SHEET(S) 1 OF 1
RESPECT PROTECTION NOTICE ISO 16016		PROJECT: TSH 4.4		DRAWING NO 064_1005				REVISION 7A
		PHILIP MORRIS INTERNATIONAL		MODEL NAME		064_1005 Heater Frame Assy		
				FILE NAME		064_1005 Heater Frame Assy		

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(b) (4)

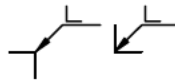


REVISION	DESCRIPTION	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
1A	As issued	J J.HOW	1/11/2016	S.C.AW	1/11/2016		
2A	Change to DPL heater & blade glass coating limit	J J.HOW	12/8/2016	S.C.AW	12/8/2016		

(b) (4)

NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009.
2. FOR UNTOLERANCED FEATURES, GENERAL TOLERANCES APPLIES. REFER TO 3D CAD FOR UNTOLERANCED FEATURES BASIC DIMENSION.
3. ALL INSPECTION DIMENSIONS AND STATISTICAL TOLERANCES MUST MEET PROCESS CAPABILITY OF (b) (4)
4. REFER TO SEPARATE CMF DATASHEET FOR COSMETIC REQUIREMENT.
5. MAXIMUM ALLOWABLE SINK MARK IS (b) (4)
6. PART MUST COMPLY TO LATEST REVISION OF ROHS AND REACH REQUIREMENT.
7. NO MATERIAL REGRIND IS ALLOWED.
8. INSERT MOLD 060_0003 HEATER WITH 064_0010 HEATER BODY.
9. DIMENSIONS IN (XX.XX) AND ϕ XX.XX (ST) X | X | X ARE CRITICAL DIMENSIONS.
10. MAXIMUM ALLOWABLE TOOL MISMATCH IS (b) (4)
11. MAXIMUM ALLOWABLE FLASH ON HEATER CERAMIC IS (b) (4)
12. EXCEPT FOR SINK MARK SPECIFIED IN NOTE 5 ABOVE, COSMETIC REQUIREMENT AS PER AQ-103 COSMETIC SPECIFICATIONS OF INJECTION MOLDED PARTS, GRADE 2, SURFACE C.
13. (b) (4) MICRON GAP IS ALLOWED BETWEEN OVERMOLD PLASTIC HEATER BODY AND HEATER CERAMIC.

NO.	PART DESCRIPTION	QTY
1	064_0061 Heater	1
2	064_0059 Heater Body	1
3	LOCTITE 5088 (b) (4)	

ADDITIONAL DRAWING TO 3D CAD DATA		3D FILES	064_1206 Overmolded Heater 2A.step	2D FILES	064_1206 Overmolded Heater 2A.pdf 064_1206 Overmolded Heater 2A.dxf
PART PROPERTIES			INJECTION MOLDED		
VOLUME [mm^3]: (b) (4)			GENERAL WALL THICKNESS: 1mm		STATE OF EDGES 
MATERIAL: VICTREX PEEK 450G (HEATER BODY)			GENERAL DRAFT ANGLE: 0.5°		
MATERIAL COLOR: NATURAL (HEATER (b) (4))			SURFACE STRUCTURE: (b) (4)		
MASS [g]: (b) (4)					
SURFACE TREATMENT: NOT APPLICABLE					
TITLE			GENERAL TOLERANCES ACCORDING TO DIN 16742-TG4		
OVERMOLDED HEATER			SCALE	FORMAT	1ST ANGLE
			2:1	A3	
REMARK			SHEET(S) 1 OF 1		
ESPECT PROTECTION NOTICE ISO 16016			PROJECT: TSH 4.4		REVISION
 PHILIP MORRIS INTERNATIONAL			DRAWING NO		2A
			064_1206		
MODEL NAME			064_1206 Overmolded Heater		
FILE NAME			064_1206 Overmolded Heater		

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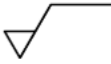
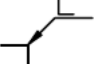


(b) (4)

REVISION	DESCRIPTION	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
1A	AS ISSUED	J.J.HOW	30/11/2016	S.C.AW	30/11/2016		
2A	(b) (4)	J.J.HOW	7/3/2017	S.C.AW	7/3/2017		

(b) (4)

1. Screen printing tracks layout are only displayed schematically.
2. Measurement location at edges (b) (4)
3. Region A (Au only) has offset of up to (b) (4)
4. Region B (including Au/Ag overlap) has onset or up to (b) (4)
5. Thickness in region A: (b) (4)
6. Thickness in region B:

(b) (4)

ADDITIONAL DRAWING TO 3D CAD DATA		3D FILES	064_0061_Heater 2A step	2D FILES	064_0061_Heater 2A.pdf 064_0061_Heater 2A.dxf
PART PROPERTIES			MACHINED		
VOLUME [mm^3]: (b) (b) MATERIAL: zirconia/Tracks Pt,Au,Ag MATERIAL COLOR: (b) MASS [g]: b SURFACE TREATMENT: b			SURFACE FINISH  (✓)		STATE OF EDGES 
TITLE Heater			GENERAL TOLERANCES ACCORDING		
REMARK			SCALE 5:1		FORMAT A3
			1ST ANGLE 		
RESPECT PROTECTION NOTICE ISO 16016			PROJECT: ZRH_TSH		DRAWING NO 064_0061
 PHILIP MORRIS INTERNATIONAL			MODEL NAME 064 0061 Heater		REVISION 2A
			FILE NAME 064 0061 Heater		

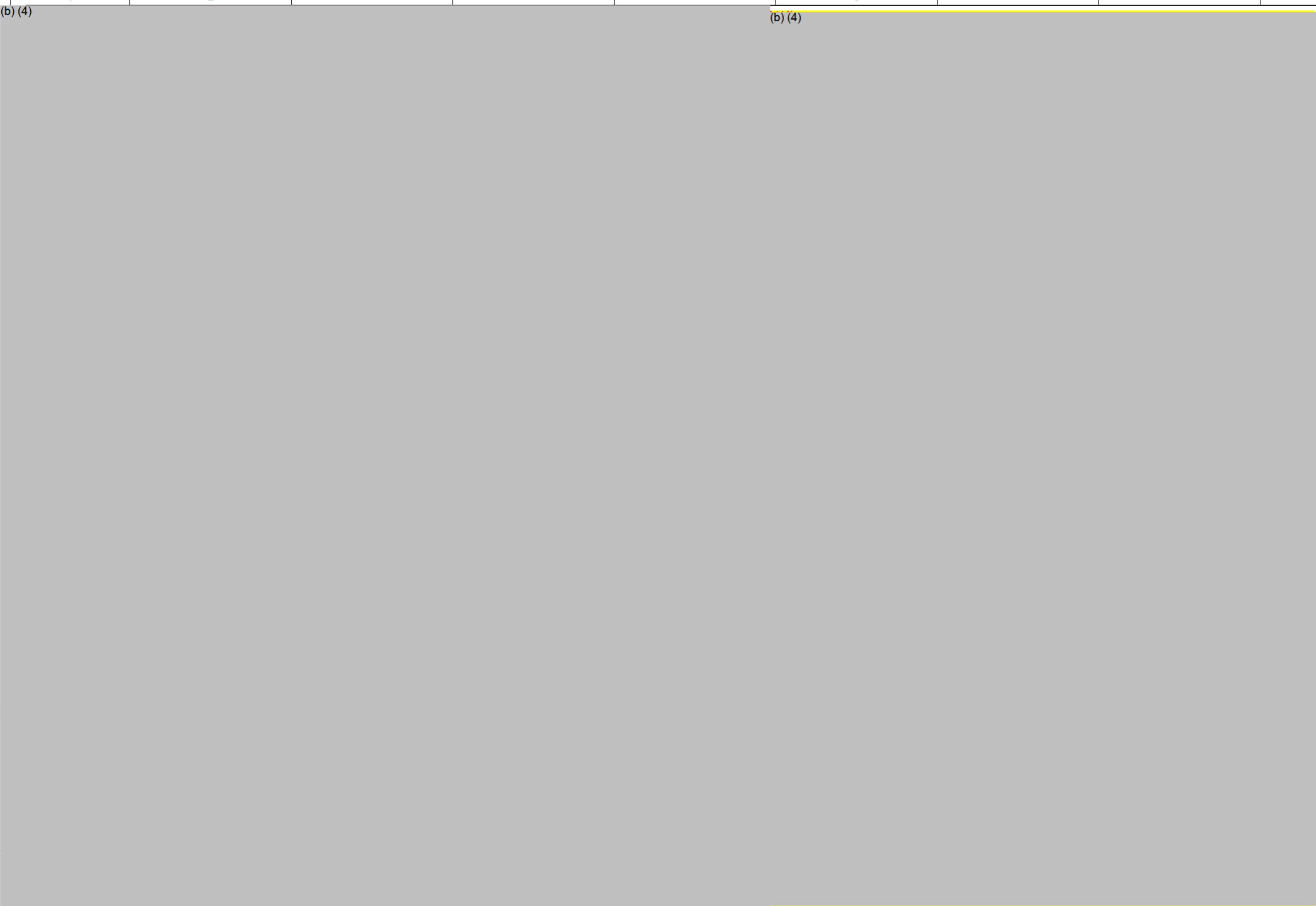
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6

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009.
2. FOR UNTOLERANCED FEATURES, GENERAL TOLERANCES APPLIES. REFER TO 3D CAD FOR UNTOLERANCED FEATURES BASIC DIMENSION.
3. ALL INSPECTION DIMENSIONS AND STATISTICAL TOLERANCES MUST MEET PROCESS CAPABILITY OF (b) (4)
4. PART TO BE FREE FROM OIL AND DIRT.
5. PART TO BE FREE OF BURRS.
6. PART MUST COMPLY TO LATEST REVISION OF ROHS AND REACH REQUIREMENT.

(b)(4)

FF

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1A	AS ISSUED	C.K. YEO	8/3/2016	S.C. AW	8/3/2016		

A



GENERAL TOLERANCE TABLE	
(b) (4)	

ITEM	NAME	MATERIAL	FINISH	QTY.	NOTE
1	415CSB-041-50E	Phosphor bronze (b) (4) Black	Substratum: Nickel (b) (4) e area: Gold flash	1	
2	Housing_Flex_B	PPA(SOLVAY AS-4133L BK324)	Black	1	UL94HB
3	411CSB-006-50E_ASM_1	(b) (4) Brass		1	

G

NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009.
2. FOR UNTOLERANCED FEATURES, GENERAL TOLERANCES APPLIES. REFER TO 3D CAD FOR UNTOLERANCED FEATURES BASIC DIMENSION.
3. (b) (4) FINISHING FOR REST OF SURFACES.
4. PART MUST COMPLY TO LATEST REVISION OF ROHS AND REACH REQUIREMENT.
5. NO MATERIAL REGRIND IS ALLOWED.
6. DIMENSIONS IN (XX.XX) AND $\begin{matrix} \phi & | & xx.xx & (s\tau) & | & x & | & x & | & x \end{matrix}$ ARE CRITICAL DIMENSIONS.
7. MAXIMUM ALLOWABLE TOOL MISMATCH FOR NON PAINTED AREA (b) (4)

ADDITIONAL DRAWING TO 3D CAD DATA		3D FILES	064_1205 Frame Flex B 1A.step -	2D FILES	064_1205 Frame Flex B 1A.pdf 064_1205 Frame Flex B 1A.dxf
TITLE			REFER TO GENERAL TOLERANCES TABLE		
Frame Flex B			SCALE	FORMAT	1ST ANGLE
REMARK			2:1	A2	
RESPECT PROTECTION NOTICE ISO 16016			ALL DIMENSIONS IN mm		
PROJECT: TSH 4.4			DRAWING NO		
PHILIP MORRIS INTERNATIONAL			064_1205		
			REVISION		
			1A		
			MODEL NAME		
			064_1205 Frame Flex B		
			FILE NAME		
			064_1205 Frame Flex B		

H

1		2		3		4		5		6		7		8		9		10		11		12	
(b) (4)		REVISION		DESCRIPTION				DRAWN BY		DATE		CHECKED BY		DATE		APPROVED BY		DATE					
		1A		AS ISSUED				C.K. YEO		8/3/2016		S.C. AW		8/3/2016									
A		(b) (4)																				A	
B		(b) (4)																				A	
F		(b) (4)																				H	
		(b) (4)																					

ADDITIONAL DRAWING TO 3D CAD DATA		3D FILES		064_1205 Frame Flex B 1A.step		2D FILES		064_1205 Frame Flex B 1A.pdf					
				-				064_1205 Frame Flex B 1A.dxf					
TITLE						REFER TO GENERAL TOLERANCES TABLE							
REMARK						SCALE		FORMAT		1ST ANGLE			
						2:1		A2					
RESPECT PROTECTION NOTICE ISO 16016						PROJECT: TSH 4.4		ALL DIMENSIONS IN mm				SHEET(S) 2 OF 4	
 PHILIP MORRIS INTERNATIONAL						DRAWING NO						REVISION	
						064_1205						1A	
MODEL NAME						064_1205 Frame Flex B							
FILE NAME						064_1205 frame Flex B							

REVISION	DESCRIPTION	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
1A	AS ISSUED	C.K. YEO	8/3/2016	S.C. AW	8/3/2016		

Electrical characteristics				SPECIFICATIONS	
	ITEMS				
1	Rated voltage/rated current	(b) (4)		(b) (4)	
2	Insulation resistance	(b) (4) shall be applied (b) (4) after measurement shall b	Between displacement terminal.		
3	Dielectric strength	(b) (4) be applied for (b) (4)	Between displacement terminal.	Without damage such as arcing or breakdown etc.	
4	Contact resistance	Connect with applicable dummy battery, and then contact resistance shall be measured between terminals. (With terminal bulk resistance)	Measuring frequency: (b) (4)	(b) (4)	
		Measurement Method			
		(b) (4)			
5	Temperature rise	The power source terminal shall be connected in a direct series. The temperature rise shall be measured by thermocouple when the temperature of terminal reaches to rated current with resistive load.	(b) (4)		
		(b) (4)			

1. Characteristics

* Standard atmospheric condition

Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests as follows:

Ambient temperature: (b) (4)

Relative humidity: (b) (4)

Air pressure: (b) (4)

If there is any doubt about the results, measurements shall be made with the following limits:

Ambient temperature: (b) (4)

Relative humidity: (b) (4)

Air pressure: (b) (4)

* Operating temperature range (b) (4)

Operating range is the range of ambient temperature for the connector housing which can be operated continuously at rated voltage and rated current.

*Storage temperature range (b) (4)

Storage temperature range is the range of ambient temperature at which connector housing can be stored without load.

2. Measurements

Measurements shall be made 5 times of identity point, measurement value is on average of that. But, in case of measurement that is no suspicion, it shall be made 1 time.

3. Prior to the alterations

Prior to the alterations of specifications, manufacturing plant and production process etc., supplier shall consult Philip Morris International Inc and acquire approval.

4. Test battery (Dummy)



1.Length : (b) (4)

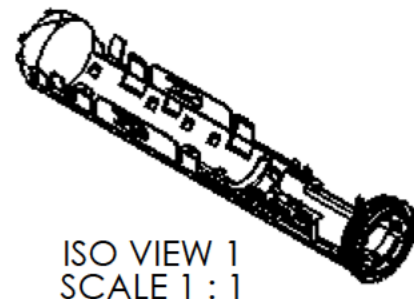
2.Diameter: (b) (4)

3.Base material: Bronze

4.Finish: Nickel Plating

5.Weight: (b) (4)

ADDITIONAL DRAWING TO 3D CAD DATA		3D FILES	064_1205 Frame Flex B 1A.step 064_1205 Frame Flex B 1A.dxf -		2D FILES	064_1205 Frame Flex B 1A.pdf 064_1205 Frame Flex B 1A.dxf -	
TITLE Frame Flex B			REFER TO GENERAL TOLERANCES TABLE				
			SCALE 2:1		FORMAT A2		1ST ANGLE 
REMARK			SHEET(S) 3 OF 4				
RESPECT PROTECTION NOTICE ISO 16016		PROJECT: TSH 4.4		DRAWING NO 064_1205			REVISION 1A
		PHILIP MORRIS INTERNATIONAL		MODEL NAME		064_1205 Frame Flex B	
				FILE NAME		064_1205 Frame Flex B	

ISO VIEW 1
SCALE 1 : 1

REVISION	DESCRIPTION	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
1A	AS ISSUED	C.K. YEO	8/3/2016	S.C. AW	8/3/2016		

Mechanical characteristics

	ITEMS	CONDITIONS	SPECIFICATIONS
1	Appearance		No defects such as cracks, scratches or blemishes.
2	Battery insertion force/hold force	Insertion force Measurement shall be made with the dummy battery (b) (4) Hold force Dummy battery (b) (4) inserted and an open part is turned downward.	Insertion force: (b) (4)
3	Terminal peel strength	Measure the force to peel the terminal from the housing.	(b) (4)

Endurance characteristics

Test shall be performed in unmated condition with mating battery

1	Vibration	The entire frequency range: (b) (4) Amplitude (total excursion): (b) (4) This motion shall be applied for a period of (b) (4) in each of (b) (4) mutually perpendicular axis (b) (4)	1.Contact resistance: (b) (4) (b) (4) 2.Discontinuity: (b) (4)
2	Shock	Pulse shape; half sine Peak acceleration: (b) (4) Duration of the pulse; 11ms Apply (b) (4) successive shock in each direction along the (b) (4) mutually perpendicular axis (b) (4)	3.Appearance: Without distinct damage
3	Cold	After exposing to a temperature of (b) (4) the specimen shall be subjected to standard atmospheric conditions for (b) (4), then measurement shall be made.	1.Contact resistance: (b) (4) (b) (4)
4	Dry heat	After exposing to a temperature of (b) (4) the specimen shall be subjected to standard atmospheric conditions for (b) (4) then measurement shall be made.	2.Appearance: Without distinct damage
5	Change temperature	The connector shall be subjected to (b) (4) successive change of temperature cycles each as shown in conditions below. Then it shall be subjected to standard atmospheric conditions (b) (4) after which measurements shall be made. Step1: Temperature = -55 (b) (4) °C, Duration = (b) (4) Step2: Temperature = Atmospheric condition, Duration = (b) (4) Step3: Temperature = 8 (b) (4) °C, Duration = 30min Step4: Temperature = Atmospheric condition, Duration = (b) (4)	1. (b) (4) (b) (4) 2.Appearance: Without distinct damage 3. (b) (4) (b) (4) 4.Dielectric strength: (b) (4) (b) (4)
6	Damp heat (steady state)	After exposing to a temperature of (b) (4), a humidity in the range of (b) (4) specimen shall be subjected to standard atmospheric conditions (b) (4) then measurement shall be made.	
7	Salt mist	The connector housing shall be subjected continuously to fine mist of salt solution at a temperature of for (b) (4) (Salt solution concentration: (b) (4) by weight). Then it shall be subjected to standard atmospheric conditions for (b) (4). After removing the salt deposits by water, the appearance of the connector housing shall be checked.	By visual inspection, without noticeable rust.
8	Mechanical operation	Insertion shall be made (b) (4) times at a speed of (b) (4) using the applicable dummy battery.	1.Contact resistance: (b) (4) (b) (4) 2.Appearance: Without distinct damage

ADDITIONAL DRAWING TO 3D CAD DATA		3D FILES	064_1205 Frame Flex B 1A.step	2D FILES	064_1205 Frame Flex B 1A.pdf 064_1205 Frame Flex B 1A.dxf
TITLE		Frame Flex B			
REMARK		REFER TO GENERAL TOLERANCES TABLE			
		SCALE	2:1	FORMAT	A2
		ALL DIMENSIONS IN mm		1ST ANGLE	
RESPECT PROTECTION NOTICE ISO 16016		PROJECT: TSH 4.4		DRAWING NO	
				064_1205	
				MODEL NAME	
				FILE NAME	
				064_1205 Frame Flex B	
				064_1205 Frame Flex B	
				REVISION	
				1A	

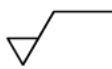
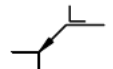
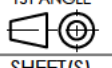

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REVISION	DESCRIPTION	DRAWN BY	DATE
1	AS ISSUED	S.C. AW	9/19/2014
1	(b) (4)	S.C. AW	2/23/2015

NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009.
2. FOR UNTOLERANCED FEATURES, GENERAL TOLERANCES APPLIES. REFER TO 3D CAD FOR UNTOLERANCED FEATURES BASIC DIMENSION.
3. PART MUST COMPLY TO LATEST REVISION OF ROHS AND REACH REQUIREMENT.

(b) (4)

(b) (4)

ADDITIONAL DRAWING TO 3D CAD DATA		3D FILES	064_0012 Heater wire 1.step	2D FILES	064_0012 Heater wire 1.pdf 064_0012 Heater wire 1.dxf
PART PROPERTIES			MACHINED		
VOLUME [mm ³]: (b) MATERIAL: BARE AWG26 Au Ni FLASH Cu-WIRE MATERIAL COLOR: SILVER MASS [g]: (b) SURFACE TREATMENT: SEE MATERIAL SPECIFICATION			SURFACE FINISH  (✓)		
STATE OF EDGES					
TITLE			GENERAL TOLERANCES ACCORDING TO ISO 2768 - mK		
HEATER WIRE			SCALE 10:1		
REMARK			FORMAT A4		
RESPECT PROTECTION NOTICE ISO 16016			1ST ANGLE 		
PROJECT: TSH 4.4			SHEET(S) 1 OF 1		
			DRAWING NO 064_0012		
PHILIP MORRIS INTERNATIONAL			REVISION 1		
MODEL NAME			064_0012 Heater wire		
FILE NAME			064_0012 Heater wire		

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(b) (4)

NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009.
2. FOR UNTOLERANCED FEATURES, GENERAL TOLERANCES APPLIES. REFER TO 3D CAD FOR UNTOLERANCED FEATURES BASIC DIMENSION.
3. ALL INSPECTION DIMENSIONS AND STATISTICAL TOLERANCES MUST MEET PROCESS CAPABILITY OF (b) (4)
4. REFER TO SEPARATE CMF DATASHEET FOR COSMETIC REQUIREMENT.
5. PART DIMENSIONS INDICATED ARE AFTER PAINTING.
6. PART MUST COMPLY TO LATEST REVISION OF ROHS AND REACH REQUIREMENT.
7. ADHESIVED PARTS MUST BE ABLE TO (b) (4) PULL FORCE WITHOUT SEPERATING.
8. NO ADHESIVE OUTGASSING IS ALLOWED ON PARTS.
9. NO ADHESIVE IS ALLOWED ON SURFACES OTHER THAN INDICATED AND IT'S MATING FACE ON LIGHT GUIDE.

NO.	PART DESCRIPTION		QTY
1	064_0015 POWER BUTTON BODY		1
2	064_0006 LIGHT GUIDE		1
3	LOCTITE (b)		(b) (4)
ADDITIONAL DRAWING TO 3D CAD DATA		3D FILES	064_1004 Power button 4A step -
		2D FILES	064_1004 Power button 4A.pdf 064_1004 Power button 4A.dxf
TITLE		POWER BUTTON	
REMARK		SCALE	FORMAT
		2:1	A3
RESPECT PROTECTION NOTICE ISO 16016		PROJECT: TSH 4.4	
DRAWING NO		064_1004	
MODEL NAME		064_1004 Power button	
FILE NAME		064_1004 Power button	

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REVISION		DESCRIPTION	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY
3		AS ISSUED	S.C. AW	1/2/2015			
4	(b) (4)		S.C. AW	5/15/2015			

(b) (4)

(b) (4)

NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009.
2. FOR UNTOLERANCED FEATURES, GENERAL TOLERANCES APPLIES. REFER TO 3D CAD FOR UNTOLERANCED FEATURES BASIC DIMENSION.
3. ALL INSPECTION DIMENSIONS AND STATISTICAL TOLERANCES MUST MEET PROCESS CAPABILITY OF (b) (4)
4. REFER TO SEPARATE CMF DATASHEET FOR COSMETIC REQUIREMENT.
5. SPRAY PAINTED SURFACES, REFER TO SEPARATE CMF DATASHEET FOR COSMETIC REQUIREMENT.
6. PART DIMENSIONS INDICATED ARE BEFORE PAINTING.
7. (b) (4) FINISHING FOR ALL SURFACES.
8. PART MUST COMPLY TO LATEST REVISION OF ROHS AND REACH REQUIREMENT.
9. NO MATERIAL REGRIND IS ALLOWED.

ADDITIONAL DRAWING TO 3D CAD DATA		3D FILES	064_0015 Power button body 4.step	2D FILES	064_0015 Power button body 4.pdf 064_0015 Power button body 4.dxf
PART PROPERTIES			INJECTION MOLDED		
VOLUME [mm^3]:	(b) (b)	ABS (ChiMei PA-777B)	GENERAL WALL THICKNESS:	0.9mm	STATE OF EDGES
MATERIAL:	(b) (b)	SEE SEPARATE CMF DATASHEET	GENERAL DRAFT ANGLE:	1°	
MATERIAL COLOR:	(b) (b)	SEE SEPARATE CMF DATASHEET	SURFACE STRUCTURE:	(b) (4)	
MASS [g]:	(b) (b)	SEE SEPARATE CMF DATASHEET			
SURFACE TREATMENT:	(b) (b)	SEE SEPARATE CMF DATASHEET			
TITLE			GENERAL TOLERANCES ACCORDING TO DIN 16742-TG4		
POWER BUTTON BODY			SCALE	FORMAT	1ST ANGLE
REMARK			2:1	A2	
RESPECT PROTECTION NOTICE ISO 16016			ALL DIMENSIONS IN mm		SHEET(S) 1 OF 1
PROJECT: TSH 4.4			DRAWING NO		REVISION
			064_0015		4
			MODEL NAME	064_0015 Power button body	
			FILE NAME	064_0015 Power button body	

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(b) (4)

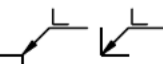


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DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
S.C. AW	1/20/2015				
S.C. AW	3/27/2015				
S.C. AW	5/4/2015				
S.C. AW	8/15/2015				

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(b) (4)

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009.
2. FOR UNTOLERANCED FEATURES, GENERAL TOLERANCES APPLIES. REFER TO 3D CAD FOR UNTOLERANCED FEATURES BASIC DIMENSION.
3. ALL INSPECTION DIMENSIONS AND STATISTICAL TOLERANCES MUST MEET PROCESS CAPABILITY OF (b) (4)
4. REFER TO SEPARATE CMF DATASHEET FOR COSMETIC REQUIREMENT.
5. SPRAY PAINTED SURFACES, REFER TO SEPARATE CMF DATASHEET FOR COSMETIC REQUIREMENT.
6. PART DIMENSIONS INDICATED ARE BEFORE PAINTING.
7. EDM FINISHING FOR PAINTED SURFACES. (b) (4) FINISHING FOR REST OF SURFACES.
8. PART MUST COMPLY TO LATEST REVISION OF ROHS AND REACH REQUIREMENT.
9. NO MATERIAL REGRIND IS ALLOWED.
10. MAXIMUM ALLOWABLE SLIDERS & PARTLINE MISMATCH ON PAINTED SURFACES IS (b) (4)
11. DIMENSIONS IN (XX.XX) AND $\begin{matrix} \oplus \\ \text{XX.XX} \end{matrix} \begin{matrix} \text{S T} \\ \text{X} \end{matrix} \begin{matrix} \text{X} \\ \text{X} \end{matrix} \begin{matrix} \text{X} \\ \text{X} \end{matrix}$ ARE CRITICAL DIMENSIONS.
12. MAXIMUM ALLOWABLE TOOL MISMATCH FOR NON PAINTED AREA IS (b) (4)

ADDITIONAL DRAWING TO 3D CAD DATA		3D FILES	064_0001 Front housing 6B.step 064_0001 Front housing 6B.dxf	2D FILES	064_0001 Front housing 6B.pdf 064_0001 Front housing 6B.dxf
PART PROPERTIES			INJECTION MOLDED		
VOLUME [mm^3]: (b) (4) MATERIAL: (RTP 1499 PX 125383A) MATERIAL COLOR: SEE SEPARATE (b) (4) MASS [g]: SURFACE TREATMENT: SEPARATE CMF DATASHEET			GENERAL WALL THICKNESS: 0.7mm ¹⁰ GENERAL DRAFT ANGLE: SURFACE STRUCTURE: (b) (4)		STATE OF EDGES 
TITLE FRONT HOUSING			GENERAL TOLERANCES ACCORDING TO DIN 16742-TG4		
REMARK			SCALE 2:1		FORMAT A2
			ALL DIMENSIONS IN mm		1ST ANGLE  SHEET(S) 1 OF 1
RESPECT PROTECTION NOTICE ISO 16016		PROJECT: TSH 4.4	DRAWING NO 064_0001		REVISION 6B
		PHILIP MORRIS INTERNATIONAL			
		MODEL NAME 064_0001 Front housing			
		FILE NAME 064_0001 Front housing			



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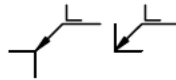


REVISION	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
1	S.C. AW	9/18/2014				
1	S.C. AW	2/23/2015				
2	S.C. AW	3/27/2015				

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(b) (4)

NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009.
2. FOR UNTOLERANCED FEATURES, GENERAL TOLERANCES APPLIES. REFER TO 3D CAD FOR UNTOLERANCED FEATURES BASIC DIMENSION.
3. ALL INSPECTION DIMENSIONS AND STATISTICAL TOLERANCES MUST MEET PROCESS CAPABILITY OF (b) (4)
4. REFER TO SEPARATE CMF DATASHEET FOR COSMETIC REQUIREMENT.
5. (b) (b) (4)
6. NO MATERIAL REGRIND IS ALLOWED.
7. DIMENSIONS IN (XX.XX) AND Φ XX.XX (ST) X | X | X ARE CRITICAL DIMENSIONS.
8. MAXIMUM ALLOWABLE TOOL MISMATCH IS 0.05mm AND FLASH IS (b) (4)
9. COSMETIC REQUIREMENT AS PER AQ-103 COSMETIC SPECIFICATIONS OF INJECTION MOLDED PARTS, GRADE 2, SURFACE C.

ADDITIONAL DRAWING TO 3D CAD DATA		3D FILES	064_0002 Extractor 2.step -	2D FILES	064_0002 Extractor 2.pdf 064_0002 Extractor 2.dxf -
PART PROPERTIES			INJECTION MOLDED		
VOLUME [mm^3]: (b) (b) MATERIAL: VICTREX PEEK 450G MATERIAL COLOR: SEE SEPARATE CMF DATASHEET MASS [g]: (b) (b) SURFACE TREATMENT: SEE SEPARATE CMF DATASHEET			GENERAL WALL THICKNESS: 0.6mm GENERAL DRAFT ANGLE: 1° SURFACE STRUCTURE: (b) (4)		STATE OF EDGES 
TITLE EXTRACTOR			GENERAL TOLERANCES ACCORDING TO DIN 16742-TG4		
REMARK			SCALE 2:1	FORMAT A3	1ST ANGLE 
			ALL DIMENSIONS IN mm		SHEET(S) 1 OF 1
RESPECT PROTECTION NOTICE ISO 16016		PROJECT: TSH 4.4	DRAWING NO 064_0002		REVISION 2
 PHILIP MORRIS INTERNATIONAL			MODEL NAME 064_0002 Extractor FILE NAME 064_0002 Extractor		

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S.C. AW	3/19/2015				
S.C. AW	5/4/2015				
S.C. AW	5/5/2015				
S.C. AW	6/18/2015				

(b) (4)

NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009.
2. FOR UNTOLERANCED FEATURES, GENERAL TOLERANCES APPLIES. REFER TO 3D CAD FOR UNTOLERANCED FEATURES BASIC DIMENSION.
3. ALL INSPECTION DIMENSIONS AND STATISTICAL TOLERANCES MUST MEET PROCESS CAPABILITY OF (b) (4).
4. REFER TO SEPARATE CMF DATASHEET FOR COSMETIC REQUIREMENT.
5. SPRAY PAINTED SURFACES, REFER TO SEPARATE CMF DATASHEET FOR COSMETIC REQUIREMENT.
6. PART DIMENSIONS INDICATED ARE BEFORE PAINTING.
- 7 (b) (4)

8. PART MUST COMPLY TO LATEST REVISION OF ROHS AND REACH REQUIREMENT.
9. NO MATERIAL REGRIND IS ALLOWED.
10. MAXIMUM ALLOWABLE SLIDERS & PARTLINE MISMATCH ON PAINTED SURFACES IS (b) (4)
10. DIMENSIONS IN (XX.XX) AND ϕ XX.XX (ST) X | X | X ARE CRITICAL DIMENSIONS.
11. MAXIMUM ALLOWABLE TOOL MISMATCH FOR NON PAINTED AREA IS (b) (4)

ADDITIONAL DRAWING TO 3D CAD DATA		3D FILES	064_0003 Rear housing 6B 6B.step	2D FILES	064_0003 Rear housing 6B 6B.pdf 064_0003 Rear housing 6B 6B.dxf	
PART PROPERTIES				INJECTION MOLDED		
VOLUME [mm³]: (b) (4)				GENERAL WALL THICKNESS: 0.7mm	STATE OF EDGES 	
MATERIAL: (b) (4) INERAL (RTP 2299 X 88223 Z)				GENERAL DRAFT ANGLE: 1°		
MATERIAL COLOR: (b) (4) DATASHEET				SURFACE STRUCTURE: (b) (4)		
MASS [g]: (b) (4)						
SURFACE TREATMENT: SEE CMF DATASHEET						
TITLE				GENERAL TOLERANCES ACCORDING TO DIN 16742-TG4		
REAR HOUSING				SCALE	FORMAT	1ST ANGLE
				2:1	A2	
REMARK				ALL DIMENSIONS IN mm		
RESPECT PROTECTION NOTICE ISO 16016		PROJECT: TSH 4.4		DRAWING NO	REVISION	
 PHILIP MORRIS INTERNATIONAL				064_0003	6B	
				MODEL NAME	064_0003 Rear housing 6B	
				FILE NAME	064_0003 Rear housing 6B	

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(b) (4)

REVISION
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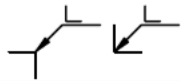


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WN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
.AW	9/17/2014				
.AW	12/31/2014				
.AW	2/5/2015				
.AW	6/3/2015				

(b) (4)

(b) (4)

NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009.
2. FOR UNTOLERANCED FEATURES, GENERAL TOLERANCES APPLIES. REFER TO 3D CAD FOR UNTOLERANCED FEATURES BASIC DIMENSION.
3. ALL INSPECTION DIMENSIONS AND STATISTICAL TOLERANCES MUST MEET PROCESS CAPABILITY OF (b) (4)
4. REFER TO SEPARATE CMF DATASHEET FOR COSMETIC REQUIREMENT.
5. SPRAY PAINTED SURFACES, REFER TO SEPARATE CMF DATASHEET FOR COSMETIC REQUIREMENT.
6. PART DIMENSIONS INDICATED ARE BEFORE PAINTING.
7. (b) (4) FOR ALL SURFACES.
8. PART MUST COMPLY TO LATEST REVISION OF ROHS AND REACH REQUIREMENT.
9. NO MATERIAL REGRIND IS ALLOWED.

ADDITIONAL DRAWING TO 3D CAD DATA		3D FILES	064_0011 Plastic Ring 3B 3B.step 064_0011 Plastic Ring 3B 3B.dxf	2D FILES	064_0011 Plastic Ring 3B 3B.pdf 064_0011 Plastic Ring 3B 3B.dxf
F(b) PROPERTIES			INJECTION MOLDED		
VOLUME [mm^3]: (b) (4) MATERIAL: (b) (4) ChiMei PA-777B MATERIAL COLOR: SEE SEPARATE CMF DATASHEET MASS [g]: (b) (4) SURFACE TREATMENT: (b) (4) SEPARATE CMF DATASHEET			GENERAL WALL THICKNESS: 1.8mm GENERAL DRAFT ANGLE: 1° SURFACE STRUCTURE: (b) (4)		STATE OF EDGES 
TITLE			GENERAL TOLERANCES ACCORDING TO DIN 16742-TG4		
REMARK			SCALE 5:1	FORMAT A2	1ST ANGLE 
RESPECT PROTECTION NOTICE ISO 16016		PROJECT: TSH 4.4	ALL DIMENSIONS IN mm DRAWING NO 064_0011		SHEET(S) 1 OF 1
 PHILIP MORRIS INTERNATIONAL			MODEL NAME FILE NAME 064_0011 Plastic Ring 3B 064_0011 Plastic Ring 3B		REVISION 3B

(b) (4)

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REVISION	DESCRIPTION	DRAWN BY	DATE
1	AS ISSUED	S.C. AW	5/4/2015
1B	(b) (4)	S.C. AW	9/25/2015

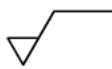

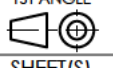

NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009.
2. FOR UNTOLERANCED FEATURES, GENERAL TOLERANCES APPLIES. REFER TO 3D CAD FOR UNTOLERANCED FEATURES BASIC DIMENSION.
3. ALL INSPECTION DIMENSIONS AND STATISTICAL TOLERANCES MUST MEET PROCESS CAPABILITY OF (b) (4)
4. PART TO BE FREE FROM OIL AND DIRT.
5. PART MUST COMPLY TO LATEST REVISION OF ROHS AND REACH REQUIREMENT.
6. DIMENSIONS IN (XX.XX) AND (XX.XX (ST) X X X) ARE CRITICAL DIMENSIONS.
7. SHEETMETAL MATERIAL THICKNESS: 0.3MM (b) (4)
8. SOFT TOOL PARTS ARE EXEMPTED FROM Cp AND Cpk REQUIREMENT, BUT PARTS MUST MEET TOLERANCES REQUIREMENTS.

(b) (4)

GENERAL TOLERANCES:

(b) (4)

ADDITIONAL DRAWING TO 3D CAD DATA		3D FILES	064_0017 Staple 1B.step	2D FILES	064_0017 Staple 1B.pdf 064_0017 Staple 1B.dxf
PART PROPERTIES			MACHINED		
VOLUME [mm^3]: (b) MATERIAL: SUS304 1/2 HARD MATERIAL COLOR: N/A MASS [g]: (b) SURFACE TREATMENT: N/A			SURFACE FINISH  STATE OF EDGES 		
TITLE			REFER TO GENERAL TOLERANCE TABLE ABOVE		
STAPLE			SCALE 5:1 FORMAT A4 1ST ANGLE 		
REMARK			SHEET(S) 1 OF 1		
RESPECT PROTECTION NOTICE ISO 16016		PROJECT: TSH 4.4		DRAWING NO 064_0017	
		PHILIP MORRIS INTERNATIONAL		REVISION 1B	
				MODEL NAME 064_0017 Staple	
				FILE NAME 064_0017 Staple	

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