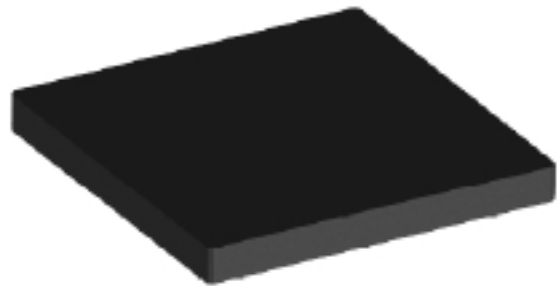
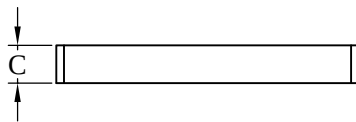
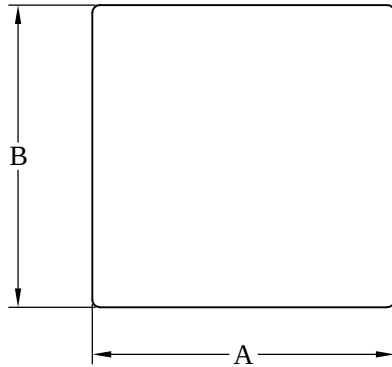


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Ceramic Heat Sink	ABC'S DWG NO.	MPS□□□□□□BAF-□□□		
		REV.	20220503-E	PAGE	1

I . Configuration :



* Products comply with RoHS' requirements

SPECIFICATION FOR APPROVAL

REF. :

PROD.	Ceramic Heat Sink	ABC'S DWG NO.	MPS□□□□□□BAF-□□□		
NAME		REV.	20220503-E	PAGE	2

II . dimensions and data sheet :

DWG. No.	Ceramic heat sink (Length, width & thickness)			Weight (ref.)
	A	B	C	
MPS101020BAF-□□□	10.0±0.3	10.0±0.3	2.0±0.2	0.38
MPS101030BAF-□□□	10.0±0.3	10.0±0.3	3.0±0.2	0.58
MPS101050BAF-□□□	10.0±0.3	10.0±0.3	5.0±0.2	0.90
MPS121225BAF-□□□	12.0±0.3	12.0±0.3	2.5±0.2	0.64
MPS121230BAF-□□□	12.0±0.3	12.0±0.3	3.0±0.2	0.77
MPS121250BAF-□□□	12.0±0.3	12.0±0.3	5.0±0.2	1.30
MPS131315BAF-□□□	13.0±0.3	13.0±0.3	1.5±0.2	0.43
MPS131350BAF-□□□	13.0±0.3	13.0±0.3	5.0±0.2	1.48
MPS151020BAF-□□□	15.0±0.3	10.0±0.3	2.0±0.2	0.60
MPS151515BAF-□□□	15.0±0.3	15.0±0.3	1.5±0.2	0.60
MPS151520BAF-□□□	15.0±0.3	15.0±0.3	2.0±0.2	0.80
MPS151525BAF-□□□	15.0±0.3	15.0±0.3	2.5±0.2	1.00
MPS181220BAF-□□□	18.0±0.3	12.0±0.3	2.0±0.2	0.77
MPS201525BAF-□□□	20.0±0.5	15.0±0.3	2.5±0.2	1.40
MPS201550BAF-□□□	20.0±0.5	15.0±0.3	5.0±0.2	2.80
MPS202020BAF-□□□	20.0±0.5	20.0±0.5	2.0±0.2	1.44
MPS202025BAF-□□□	20.0±0.5	20.0±0.5	2.5±0.2	1.80
MPS202050BAF-□□□	20.0±0.5	20.0±0.5	5.0±0.2	3.60
MPS222225BAF-□□□	22.0±0.5	22.0±0.5	2.5±0.2	2.20
MPS252525BAF-□□□	25.0±0.5	25.0±0.5	2.5±0.2	2.25
MPS272725BAF-□□□	27.0±0.5	27.0±0.5	2.5±0.2	3.28
MPS281750BAF-□□□	28.0±0.5	17.0±0.5	5.0±0.2	4.00
MPS302025BAF-□□□	30.0±0.5	20.0±0.5	2.5±0.2	2.70
MPS303025BAF-□□□	30.0±0.5	30.0±0.5	2.5±0.2	4.00
MPS303065BAF-□□□	30.0±0.5	30.0±0.5	6.5±0.2	9.25
MPS401550BAF-□□□	40.0±0.5	15.0±0.3	5.0±0.2	5.60
MPS404025BAF-□□□	40.0±0.5	40.0±0.5	2.5±0.2	7.00

SPECIFICATION FOR APPROVAL

REF. :

PROD.	Ceramic Heat Sink	ABC'S DWG NO.	MPS□□□□□□BAF-□□□		
NAME		REV.	20220503-E	PAGE	3

III . Ceramic Heat Sink Technical data sheet :

Main features		Item	Unit	Value	Method
Product		Ceramic Heat Sink with Micro-Pores Structure			
Product code		MP-SIC			
Color		Gray			
Specific gravity			g/cm ³	2.7	CNS619
Porosity			%	30	CNS619
Water absorption			%	15.77	CNS619
Mechanical properties	Mohs' hardness		N/mm ²	5~6	DIN EN101-1992
	Flexural strength		kgf/cm ²	47.5	CNS12701(1990)
	Bulk density		g/cm ³	1.6~2.0	CNS2893(1969)
	Resistance insulation		Ω	20*10 ⁶	ASTM D257
	Thermal conductivity		W/m-k	5~6	
	Maximum operating temperature		°C	<500	
	Linear thermal expansion coefficient		10 ⁻⁶	4.13	RT~300°C
Chemical composition	Main composition			SiC	80%↑
	Composition			Al ₂ O ₃	10%↑
	Composition			SiO ₂	4%↑
	Composition			Binding agents	5%↑

AR-001C



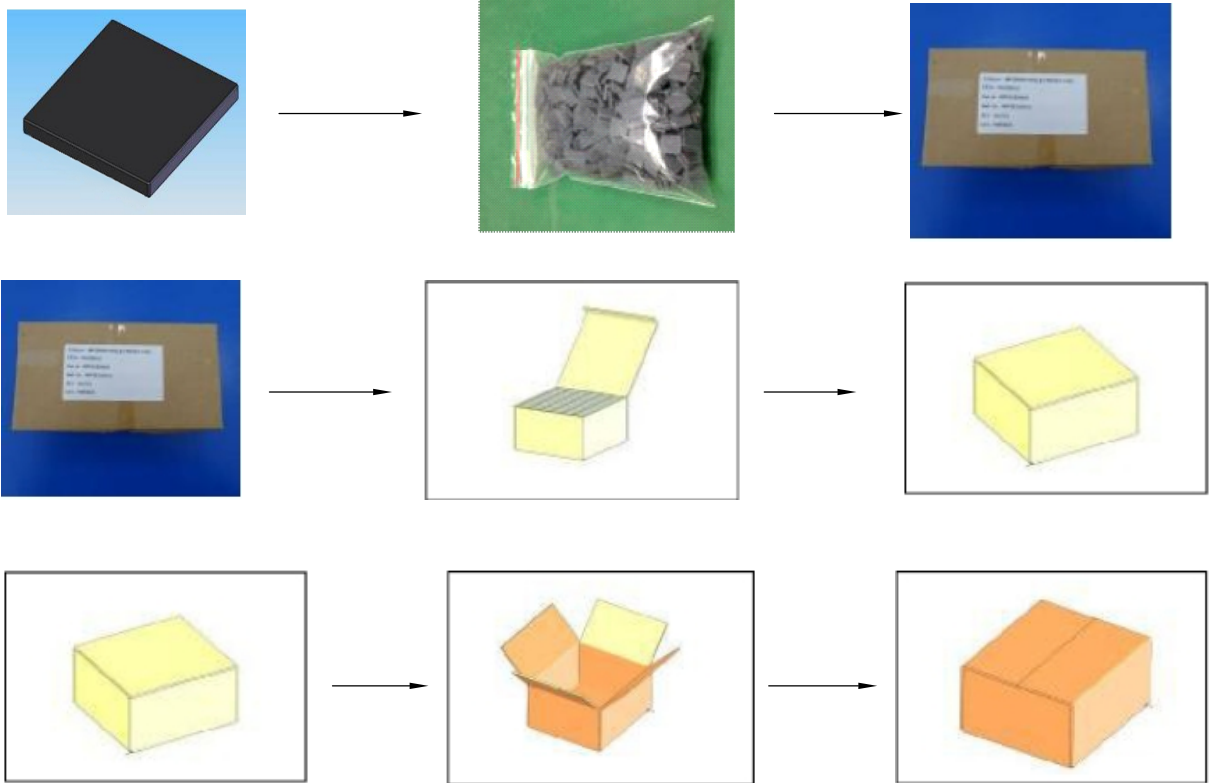
千如電子集團
ABC-ATEC ELECTRONICS GROUP

SPECIFICATION FOR APPROVAL

REF. :

PROD.	Ceramic Heat Sink	ABC'S DWG NO.	MPS□□□□□□BAF-□□□		
NAME		REV.	20220503-E	PAGE	4-1

IV-I . Packaging information (Box) :



Q'TY & G.W.Per Packaging

DWG NO.	Inner : Box		Outer : Carton		
	Q'TY(pcs)	G.W.(g)	Q'TY(pcs)	G.W.(kg)	Size (cm)
MPS101020BAF	500	210	16,000	8.60	37.5x37.0x21.0
MPS101030BAF	300	195	9,600	8.10	37.5x37.0x21.0
MPS101050BAF	200	200	6,400	8.30	37.5x37.0x21.0
MPS121225BAF	150	120	4,800	5.60	37.5x37.0x21.0
MPS121230BAF	150	140	4,800	6.30	37.5x37.0x21.0
MPS121250BAF	150	220	4,800	8.80	37.5x37.0x21.0
MPS131315BAF	200	110	6,400	5.30	37.5x37.0x21.0
MPS131350BAF	150	250	4,800	9.80	37.5x37.0x21.0
MPS151020BAF	300	200	9,600	8.30	37.5x37.0x21.0

IV-I . Packaging information (Bag) :

Q'TY & G.W.Per Packaging

DWG NO.	Inner : Bag		Outer : Carton		
	Q'TY(pcs)	G.W.(kg)	Q'TY(pcs)	G.W.(kg)	Size (cm)
MPS222225BAF	4,000	8.85	4,000	9.50	40.0x24.0x18.0

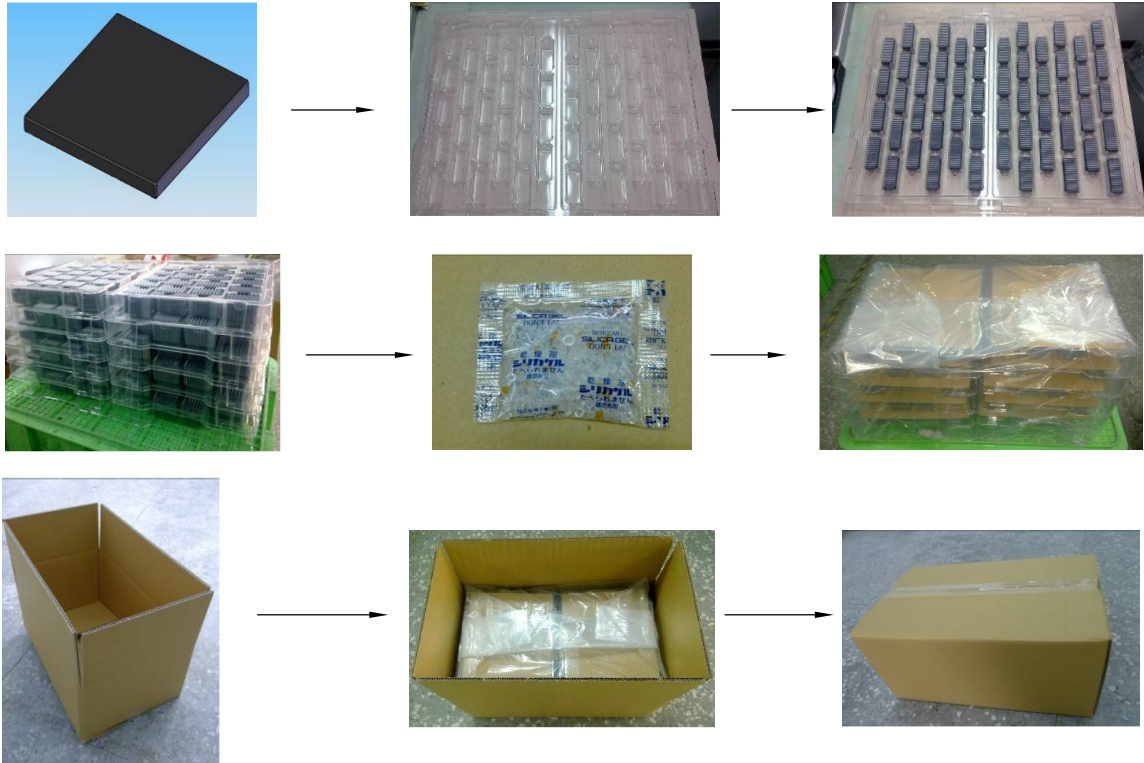
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SPECIFICATION FOR APPROVAL

REF. :

PROD.	Ceramic Heat Sink	ABC'S DWG NO.	MPS□□□□□□BAF-□□□		
NAME		REV.	20220503-E	PAGE	4-2

IV-II . Packaging information (Tray) :



Q'TY & G.W.Per Packaging

DWG NO.	Inner : Tary		Outer : Carton		
	Q'TY(pcs)	G.W.(g)	Q'TY(pcs)	G.W.(kg)	Size (cm)
MPS151515BAF	1,242	850	6,210	5.80	52.0x32.0x14.0
MPS151520BAF	918	840	4,590	5.70	52.0x32.0x14.0
MPS151525BAF	918	1,020	4,590	6.80	52.0x32.0x14.0
MPS181220BAF	1,134	1,000	5,670	6.50	52.0x32.0x14.0
MPS201525BAF	918	1,400	4,590	8.50	52.0x32.0x14.0
MPS201550BAF	432	1,350	2,160	8.10	52.0x32.0x14.0
MPS202020BAF	1,134	1,750	5,670	10.30	52.0x32.0x14.0
MPS202025BAF	918	1,800	4,590	10.50	52.0x32.0x14.0
MPS202050BAF	432	1,600	2,160	9.80	52.0x32.0x14.0
MPS252525BAF	340	870	4,080	11.30	52.5x31.0x23.5
MPS272725BAF	340	1,250	4,080	15.50	52.5x31.0x23.5
MPS281750BAF	216	900	1,080	5.50	52.0x32.0x14.0
MPS302025BAF	340	1,050	4,080	13.20	52.5x31.0x23.5
MPS303025BAF	340	1,500	4,080	18.50	52.5x31.0x23.5
MPS303065BAF	120	1,110	1,440	13.80	52.5x31.0x23.5
MPS401550BAF	100	660	1,000	7.60	52.5x31.0x23.5
MPS404025BAF	220	1,650	2,200	17.50	52.5x31.0x23.5

AR-001C

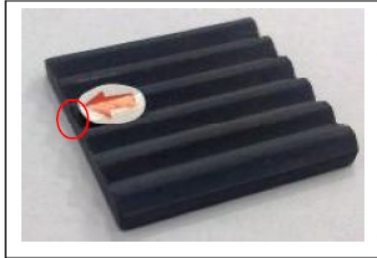
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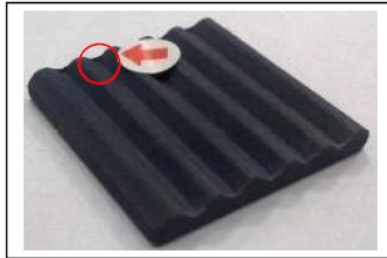
PROD.	Ceramic Heat Sink	ABC'S DWG NO.	MPS□□□□□□BAF-□□□		
NAME		REV.	20220503-E	PAGE	5

V . Criteria of product inspection :

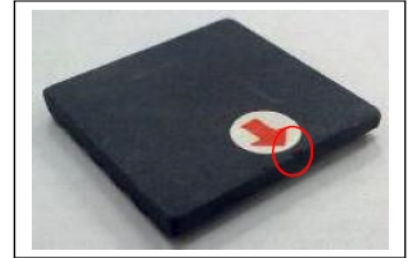
(1) Accepted Product



Appearance Description : Crack
Limitation : Less than 2 mm



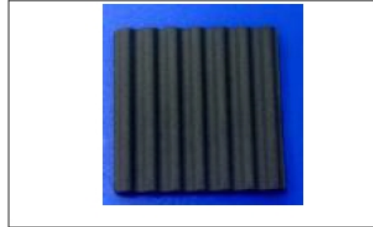
Appearance Description : Burr
Limitation : Less than 2 mm



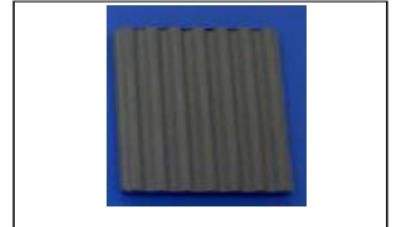
Appearance Description : Hole
Limitation : Less than 2 mm



Appearance Description : Deep Gray

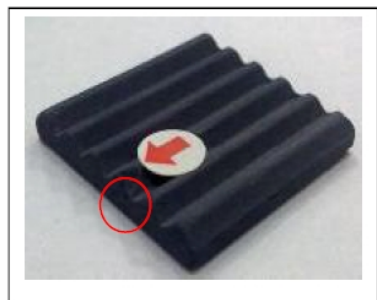


Appearance Description : Gray

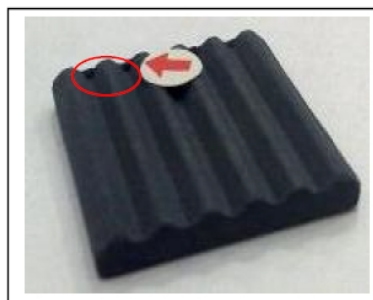


Appearance Description : Light Gray

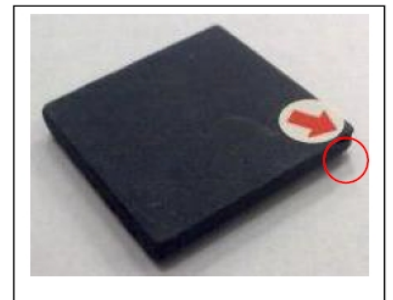
(2) Rejected Product



Appearance Description : Crack
Failure : More than 2 mm



Appearance Description : Burr
Failure : More than 2 mm



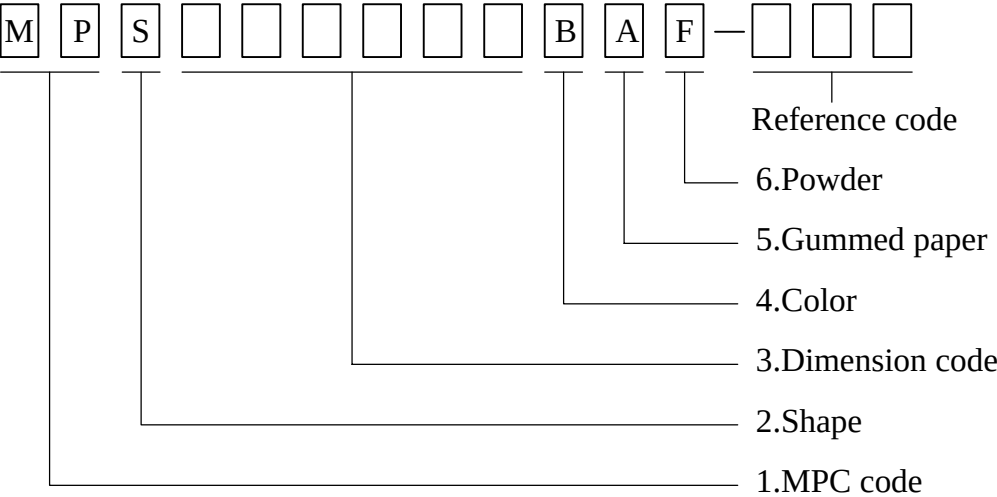
Appearance Description : Hole
Failure : more than 2 mm

SPECIFICATION FOR APPROVAL

REF. :

PROD.	Ceramic Heat Sink	ABC'S DWG NO.		MPS□□□□□□BAF-□□□		
NAME		REV.	20220503-E	PAGE	6	

VI . Drawing number expression :



- * 1- MP : Heat sink
- * 2- S : flat 、 W : wave 、 F : fin 、 R : reel
- * 3- Long, wide, thick
- * 4- B : black 、 G : green
- * 5- A : no thermal tape 、 T : Thermal tape with fiberglass 、 N : Thermal tape with non fiberglass
C : circle and L type thermal tape 、 S : customer specified 、 2~9 : special case
- * 6- A : Outsourcing SiC product 、 F : SiC spray granulation 、 G : Composite graphene