

IC Packages

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ROHM Packages

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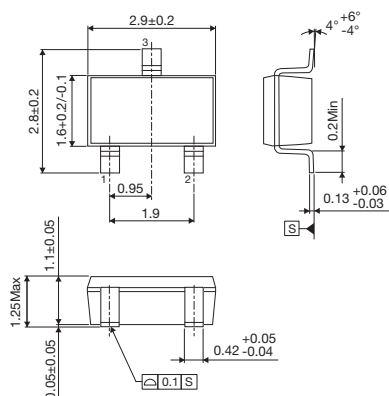
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Small Packages

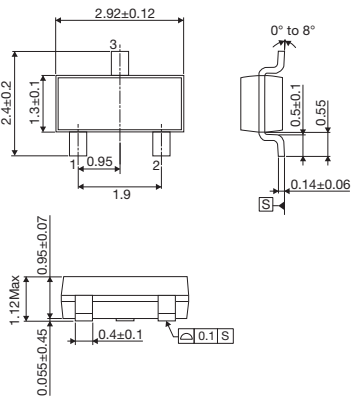
(Unit: mm)

SOP Packages

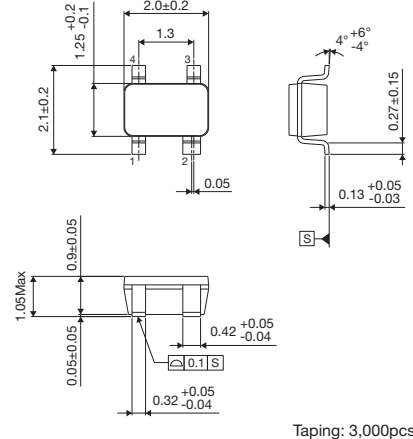
SSOP3



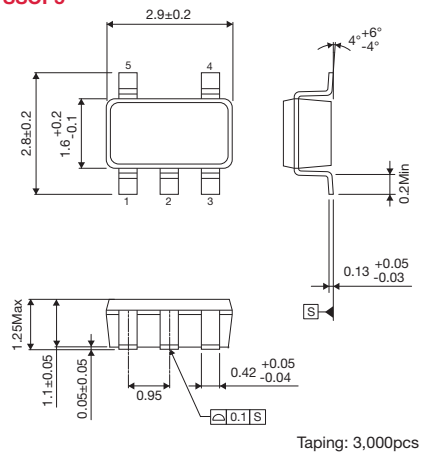
SSOP3A



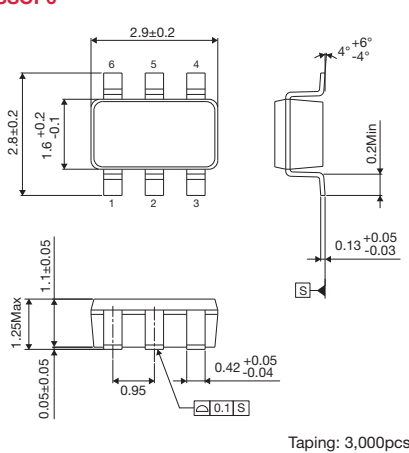
SOP4



SSOP5

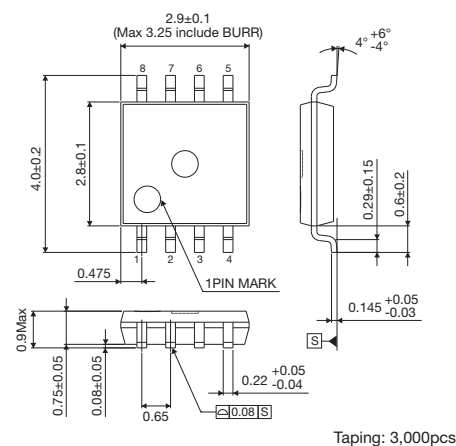


SSOP6

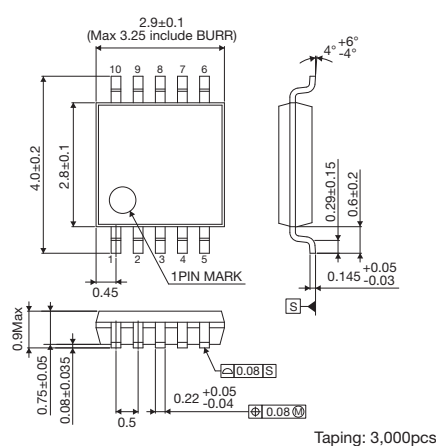


MSOP Packages

MSOP8



MSOP10

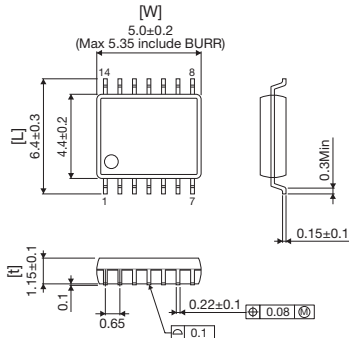


Note: Please refer package from "LSI Packages (LAPIS Technology products)".

SOP Packages

(Unit: mm)

SSOP Package (for SSOP-B14)



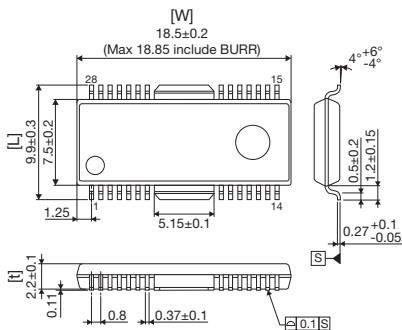
	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	Package (pcs) taping
SOP Package Pin Pitch: 1.27mm	SOP8	8	6.2	5.0	1.61	2,500
	SOP-JW8		6.0	4.9	1.65	2,500
	SOP14	14	6.2	8.7	1.61	2,500
	SOP-J14		6.0	8.65	1.65	2,500
	SOP16	16	6.2	10.0	1.61	2,500
	SOP-J16A		6.0	9.9	1.55	2,500
	SOP18	18	7.8	11.2	1.91	2,000
	SOP20A	20	10.3	12.8	2.5	1,500
	SOP24	24	7.8	15.0	1.91	2,000
	SOP28	28	9.9	18.5	2.31	1,500
SSOP-A Package Pin Pitch: 0.8mm	SSOP-A16	16	6.2	6.6	1.61	2,500
	SSOP-A20	20	7.8	8.7	1.91	2,000
	SSOP-A24	24	7.8	10.0	1.9	2,000
	SSOP-A32	32	7.8	13.6	1.91	2,000
SSOP-B Package Pin Pitch: 0.65mm	SSOP-B8	8	6.4	3.0	1.25	2,500
	SSOP-B10W	10	10.2	3.5	1.9	1,500
	SSOP-B14	14	6.4	5.0	1.25	2,500
	SSOP-B16	16	6.4	5.0		2,500
	SSOP-B20	20	6.4	6.5		2,500
	SSOP-B20W	20	8.1	6.5	1.81	2,000
	SSOP-B24	24	7.6	7.8	1.25	2,000
	SSOP-B28	28	7.6	10.0		2,000
	SSOP-B28W	28	10.4	9.2		1,500
	SSOP-B40	40	7.8	13.6	1.9	2,000
TSSOP-B Package Pin Pitch: 0.65mm	TSSOP-B8	8	6.4	3.0	1.2	3,000
	TSSOP-B8J		4.9	3.0	1.1	2,500
	TSSOP-B14J	14	6.4	5.0	1.2	2,500
TSSOP-C Package Pin Pitch: 0.5mm	TSSOP-C48V	48	8.1	12.5	1.0	2,000

Note: Please check the ROHM's website for detailed dimensions.

HSOP Packages (Heat sink on both side)

(Unit: mm)

HSOP Package (for HSOP-M28)



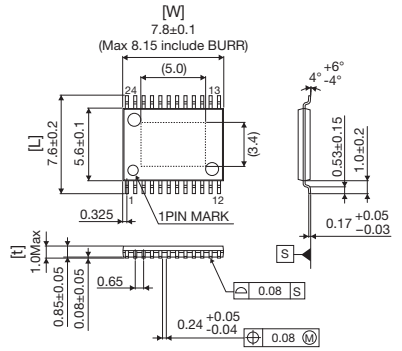
	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	Package (pcs) taping
HSOP Package Pin Pitch: 1.27mm	HSOP20	20	7.8	14.9	2.1	2,000
HSOP Package Pin Pitch: 0.8mm	HSOP25	25	7.8	13.6	2.01	2,000
HSOP-M Package Pin Pitch: 0.8mm	HSOP-M28	28	9.9	18.5	2.31	1,500
	HSOP-M36	36	9.9	18.5	2.4	1,500

Note: Please check the ROHM's website for detailed dimensions.

HTSOP Packages (With back heat sink)

(Unit: mm)

HTSSOP Package (for HTSSOP-B24)



	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	back heat sink (mm)	Package (pcs) taping
HTSOP Package Pin Pitch: 1.27mm	HTSOP-J8	8	6.0	4.9	1.0	2.4×3.2	2,500
	HTSOP-J8ES	8	6.0	4.9		1.8×2.2	2,500
HTSSOP-A Package Pin Pitch: 0.8mm	HTSSOP-A44	44	9.5	18.5	1.0	5.0×6.0	1,500
	HTSSOP-A44R	44	9.5	18.5		5.0×6.0 (surface)	1,500
HTSSOP-B Package Pin Pitch: 0.65mm	HTSSOP-B16	16	6.4	5.0	1.0	2.4×3.0	2,500
	HTSSOP-B20	20	6.4	6.5		2.4×4.0	2,500
	HTSSOP-B24	24	7.6	7.8		3.4×5.0	2,000
	HTSSOP-B28	28	6.4	9.7		2.9×5.5	2,500
	HTSSOP-B30	30	7.6	10.0		3.7×5.8	2,000
	HTSSOP-B40	40	7.8	13.6		3.4×8.4	2,000
	HTSSOP-B54	54	9.5	18.5		5.0×6.0	1,500
HTSSOP-C Package Pin Pitch: 0.5mm	HTSSOP-C48	48	8.1	12.5	1.0	4.2×5.0	2,000
	HTSSOP-C48R	48	8.1	12.5		4.2×5.0 (surface)	2,000
	HTSSOP-C64	64	8.1	17.2	1.1	3.05×4.45	2,000
HSSOP-C Package Pin Pitch: 0.5mm	HSSOP-C16	16	6.0	4.9	1.7	about 2.5×4.12	2,500

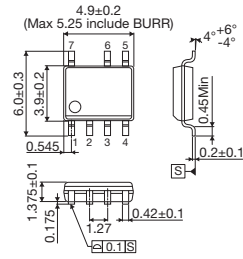
Note: Please check the ROHM's website for detailed dimensions.

Note: Please refer package from "LSI Packages (LAPIS Technology products)".

SOP Special Packages

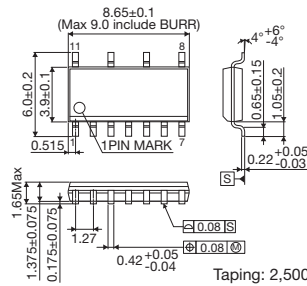
(Unit: mm)

SOP-J7S



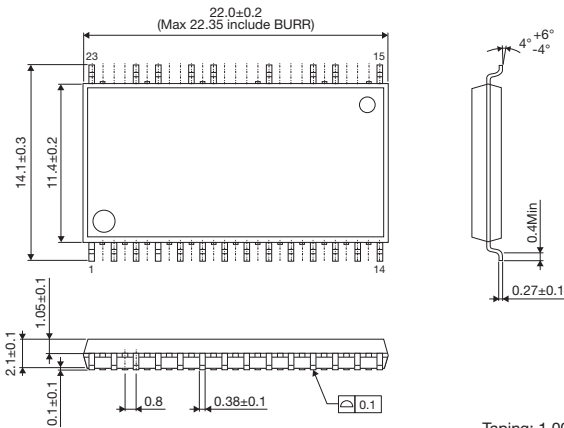
Taping: 2,500pcs

SOP-J11



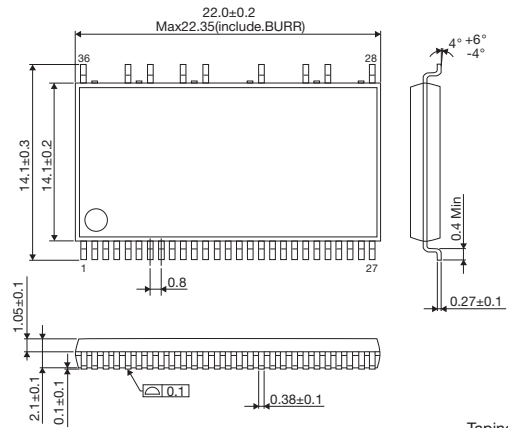
Taping: 2,500pcs

SSOP-A54_23



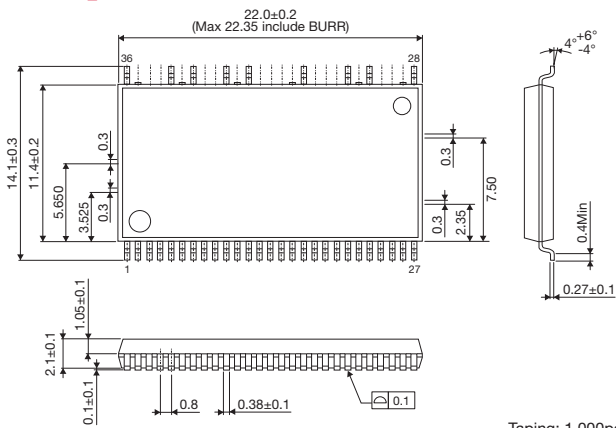
Taping: 1,000pcs

SSOP-A54_36



Taping: 1,000pcs

SSOP-A54_36A



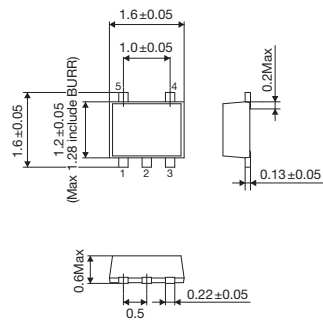
Taping: 1,000pcs

Non-lead Packages

(Unit: mm)

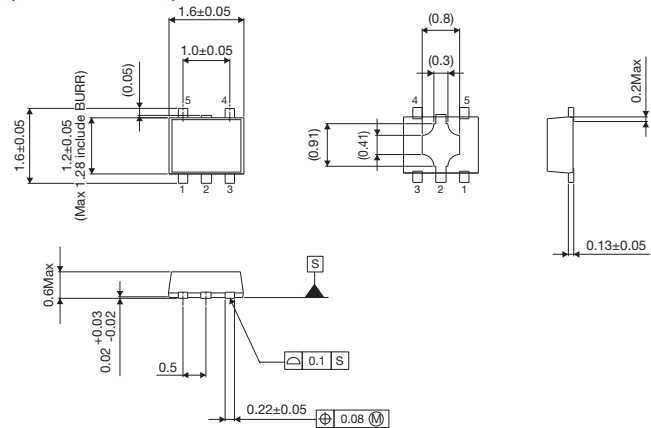
VSOF Packages

VSOF5



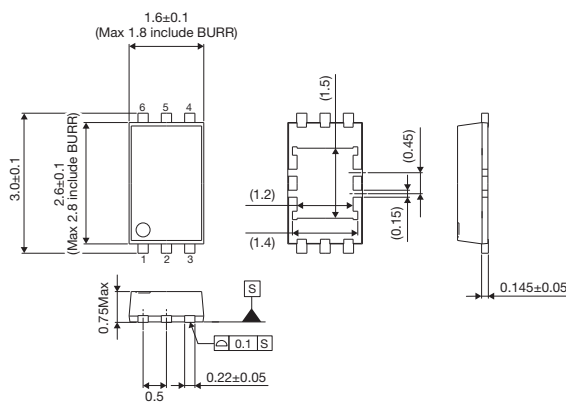
Taping: 3,000pcs

HVSOF5 (With back heat sink)



Taping: 3,000pcs

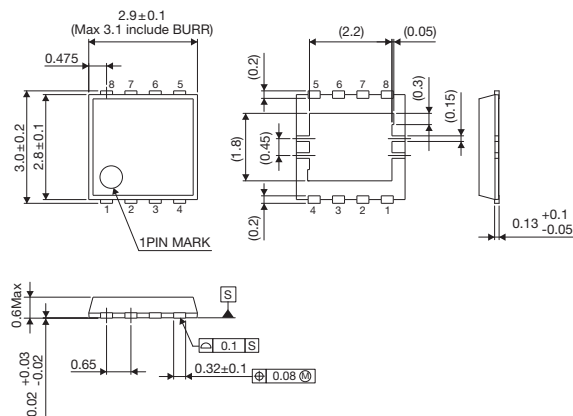
HVSOF6 (With back heat sink)



Taping: 3,000pcs

HSO8 Package (With back heat sink)

HSO8



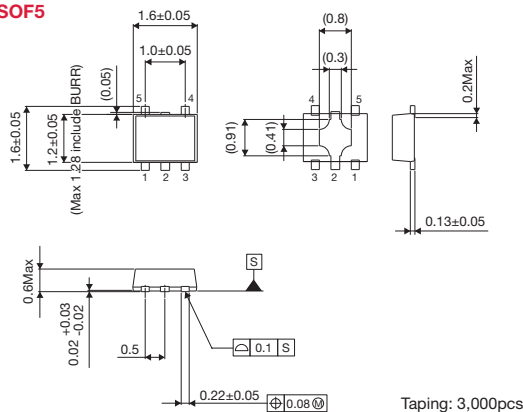
Taping: 3,000pcs

Optical Non-lead Packages (With back heat sink)

(Unit: mm)

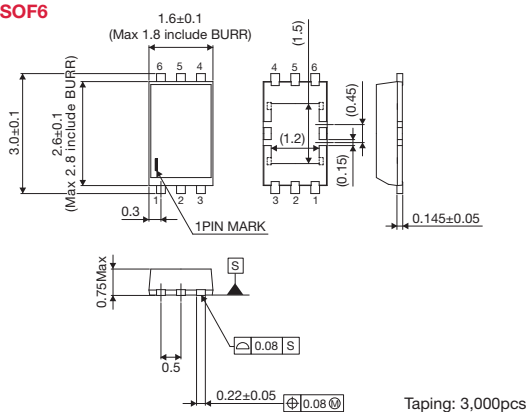
WSOF Packages

WSOF5



Taping: 3,000pcs

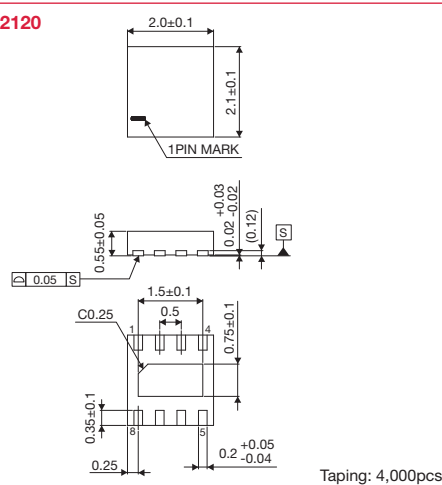
WSOF6



Taping: 3,000pcs

WSN Package

WS0N008X2120



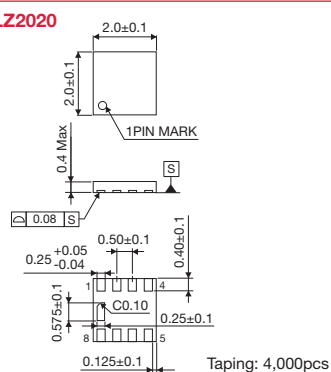
Taping: 4,000pcs

MMP Packages

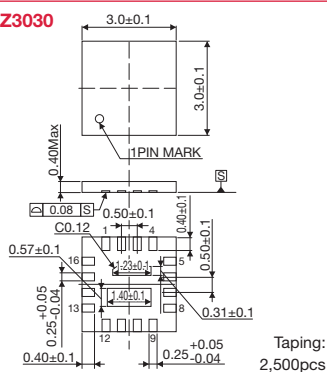
(Unit: mm)

VMMP Packages

VMMP08LZ2020



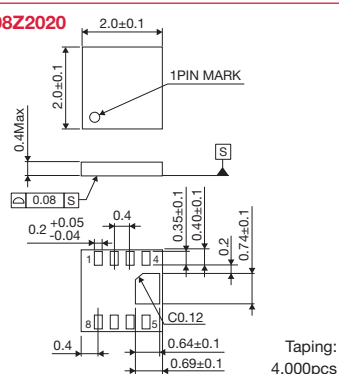
Taping: 4,000pcs

VMMP16LZ3030

Taping:
2,500pcs

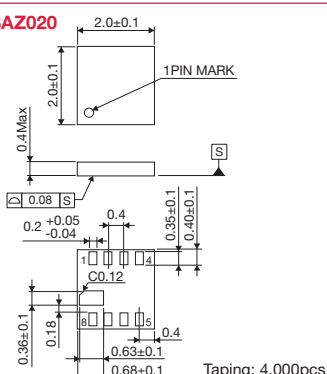
UMMP Packages

UMMP008Z2020



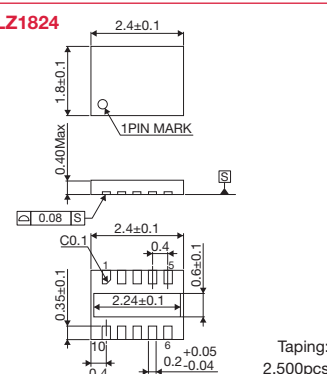
Taping:
4,000pcs

UMMP008AZ020



Taping: 4,000pcs

UMMP10LZ1824



Taping:
2,500pcs

Note: Please refer package from "LSI Packages (LAPIS Technology products)".

Note: Please check the ROHM's website for detailed dimensions.

(Unit: mm)

Taping: 5,000pcs

(Unit: mm)

Note: Please check the ROHM's website for detailed dimensions.

(Unit: mm)

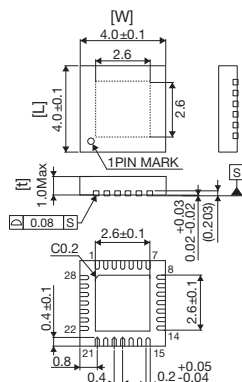
Note: Please check the ROHM's website for detailed dimensions.

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QFN Packages (With back heat sink)

(Unit: mm)

UQFN Package (for UQFN28V4040A)



	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	back heat sink (mm)	Package (pcs) taping
SQFN Package Pin Pitch: 0.65mm	SQFN016V4040	16	4.0	4.0	1.0	2.1×2.1	2,500
UQFN Package Pin Pitch: 0.4mm	UQFN28V4040A	28	4.0	4.0	1.0	2.6×2.6	2,500
	UQFN036V5050	36	5.0	5.0		2.7×2.7	2,500
	UQFN040V5050	40	5.0	5.0		3.3×3.3	2,500
	UQFN056V7070	56	7.0	7.0		4.7×4.7	1,500
	UQFN56BV7070		7.0	7.0		4.0×4.0	1,500
	UQFN68CV8080	68	8.0	8.0		4.3×4.3	1,000
	UQFN88MV0100	88	10.0	10.0		7.8×7.8	1,000
VQFN Package Pin Pitch: 0.5mm	VQFN11X3535A	11	3.5	3.5	0.6	—	2,500
	VQFN016V3030	16	3.0	3.0	1.0	1.4×1.4	3,000
	VQFN16FV3030		3.0	3.0		1.4×1.4	3,000
	VQFN16KV3030		3.0	3.0		1.4×1.4	3,000
	VQFN16Z3030A		3.0	3.0	0.4	1.8×1.8	4,000
	VQFN20	20	4.2	4.2	0.95	—	2,500
	VQFN20FV3535		3.5	3.5	1.0	2.05×2.05	2,500
	VQFN20FV4040		4.0	4.0		2.1×2.1	2,500
	VQFN20PV3535		3.5	3.5		2.05×2.05	2,500
	VQFN20QV3535		3.5	3.5		2.05×2.05	2,500
	VQFN020V4040		4.0	4.0		2.1×2.1	2,500
	VQFN24FV4040	24	4.0	4.0	1.0	2.4×2.4	2,500
	VQFN24SV4040		4.0	4.0		2.4×2.4	2,500
	VQFN024V4040	28	4.0	4.0		2.4×2.4	2,500
	VQFN28FV5050		5.0	5.0		2.7×2.7	2,500
	VQFN28SV5050		5.0	5.0		2.7×2.7	2,500
	VQFN028V5050		5.0	5.0		2.7×2.7	2,500
	VQFN32FBV050	32	5.0	5.0	1.0	3.4×3.4	2,500
	VQFN32FAV050		5.0	5.0		3.4×3.4	2,500
	VQFN32SV5050		5.0	5.0		3.4×3.4	2,500
	VQFN032V5050		5.0	5.0		3.4×3.4	2,500
	VQFN36	36	6.2	6.2	0.95	—	2,500
	VQFN036V6060		6.0	6.0	1.0	3.6×3.6	2,000
	VQFN40W6060A	40	6.0	6.0	0.8	4.5×4.5	2,000
	VQFN040V6060		6.0	6.0	1.0	3.7×3.7	2,000
	VQFN40FV6060		6.0	6.0		4.4×4.4	2,000
	VQFN046V8080	46	8.0	8.0		6.1×3.85	1,000
	VQFN48V7070A	48	7.0	7.0	0.9	5.3×5.3	1,500
	VQFN48MCV070		7.0	7.0	1.0	5.6×5.6	1,500
	VQFN48FV7070		7.0	7.0		3.2×3.2	1,500
	VQFN048V7070		7.0	7.0		4.7×4.7	1,500
	VQFN56FCV080	56	8.0	8.0		4.5×4.5	1,000
	VQFN56AV8080		8.0	8.0		3.4×3.4	1,000
	VQFN56FV8080		8.0	8.0		5.5×5.5	1,000
WQFN Package Pin Pitch: 0.5mm	WQFN12X2520A	12	2.5	2.0	0.5	—	4,000

Note: Please check the ROHM's website for detailed dimensions.

	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	Package (pcs) taping
SBGA Package Pin Pitch: 0.65mm	SBGA072T070A	72	7.0	7.0	1.2	1,500
VBGA Package Pin Pitch: 0.5mm	VBGA048W040	48	4.0	4.0	0.9	2,500
	VBGA049W040A	49	4.0	4.0	0.8	2,500
	VBGA064T050A	64	5.0	5.0	1.2	2,500
	VBGA099W060	99	6.0	6.0	0.9	2,000

IC Packages

(Unit: mm)

Taping: 3,000pcs

Taping: 2,500pcs

Taping: 3,000pcs

Taping: 3,000pcs

Taping: 3,000pcs

Taping:
2,500pcs

117

WL-CSP Packages

(Unit: mm)

VCSP <Pin Pitch: 0.5mm>

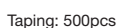
VCSP85H	VCSP60N	VCSP50L	VCSP35L
2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs	2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs	2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs	2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs Embossed carrier tape: 3,000pcs

UCSP <Pin Pitch: 0.4mm>

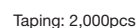
UCSP75M	UCSP55M	UCSP50L	UCSP35L
2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs	2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs	2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs	2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs Embossed carrier tape: 3,000pcs
UCSP30L	UCSP25L	UCSP16X	
2.8mm square size less than: 3,000pcs 2.81mm square size or more: 2,500pcs Embossed carrier tape: 3,000pcs	Embossed carrier tape: 3,000pcs	Embossed carrier tape: 3,000pcs	

(Unit: mm)

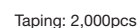
TO220CP-3



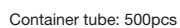
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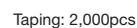
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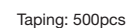
TO220FP-3



TO252-J3



TO263-3



SOT89-3K



SOT223-4



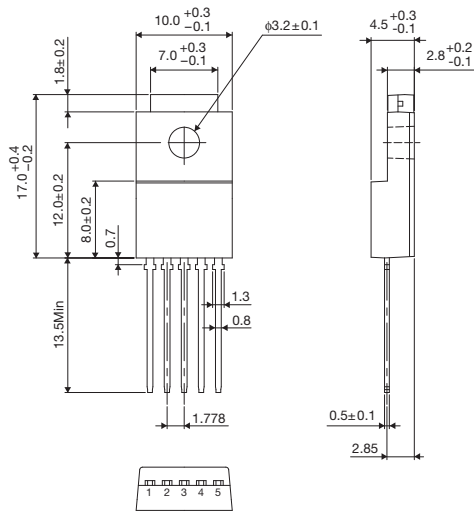
119

Power Packages

(Unit: mm)

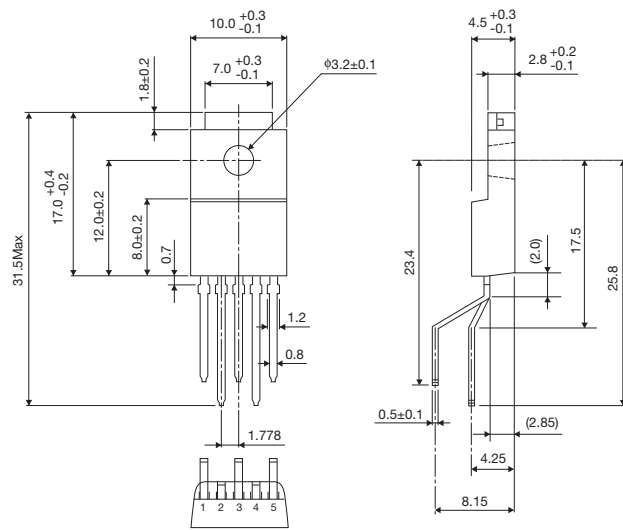
Power-5pin

TO220FP-5



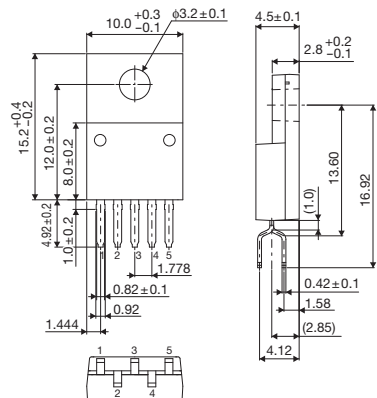
Tube: 500pcs

TO220FP-5 (V5)



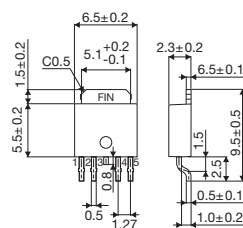
Tube: 500pcs

TO220CP-V5



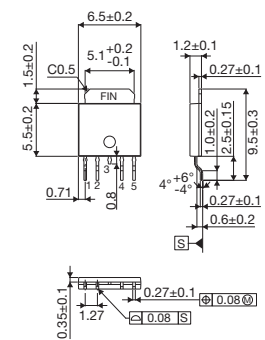
Taping: 500pcs

TO252-5



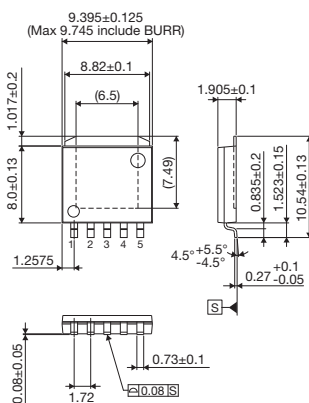
Taping: 2,000pcs

TO252S-5



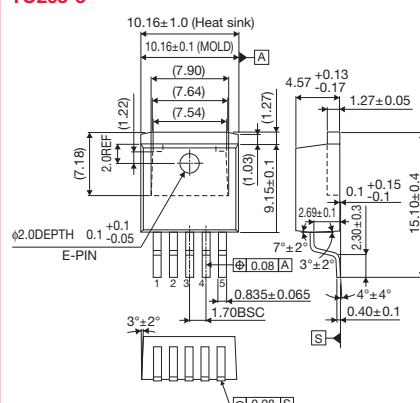
Taping: 2,000pcs

HRP5



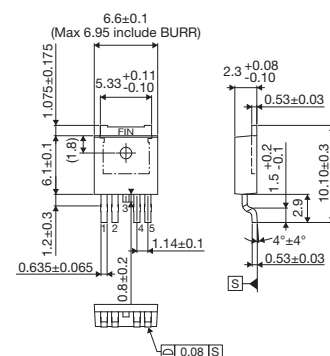
Taping: 2,000pcs

TO263-5



Taping: 500pcs

TO252-J5



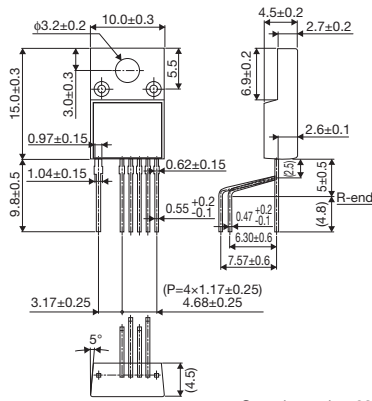
Taping: 2,000pcs

Power Packages

(Unit: mm)

Power-6pin

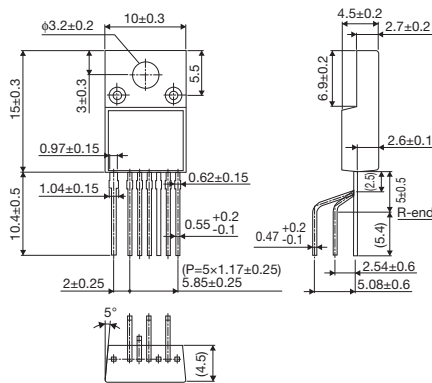
TO220-6M



Container tube: 238pcs

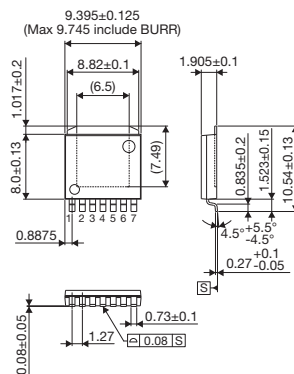
Power-7pin

TO220-7M



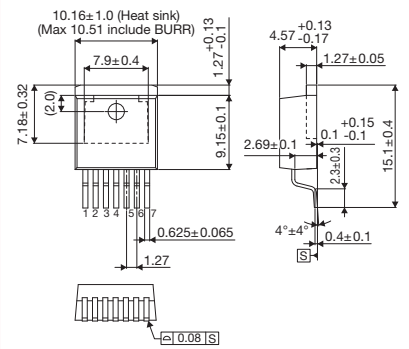
Container tube: 238pcs

HRP7



Taping: 2,000pcs

TO263-7



Taping: 2,000pcs

LAPIS Technology product Packages

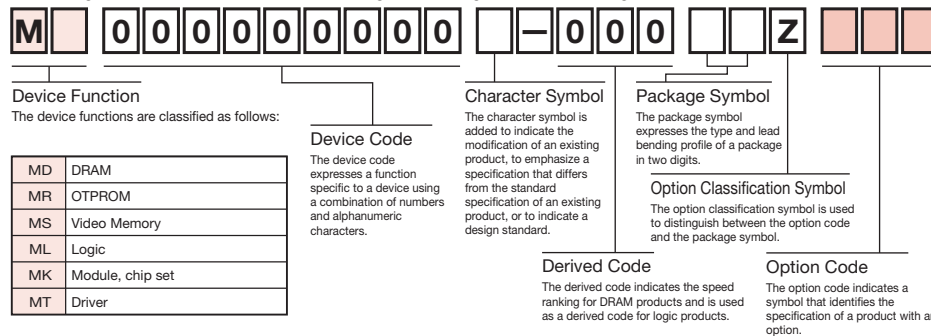
Part No.	Explanation	P.122
SOP Packages		P.122
QFP Packages		P.123
QFN Packages		P.124

WSO Packages	P.126
BGA Packages	P.126
WL-CSP Packages	P.127

These package size are an example. For details, please inquire to the sales.

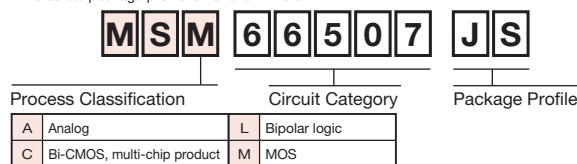
LAPIS Technology LSI Part No. Explanation

Product names are assigned to our semiconductor devices using the following convention, starting with the character “M”.



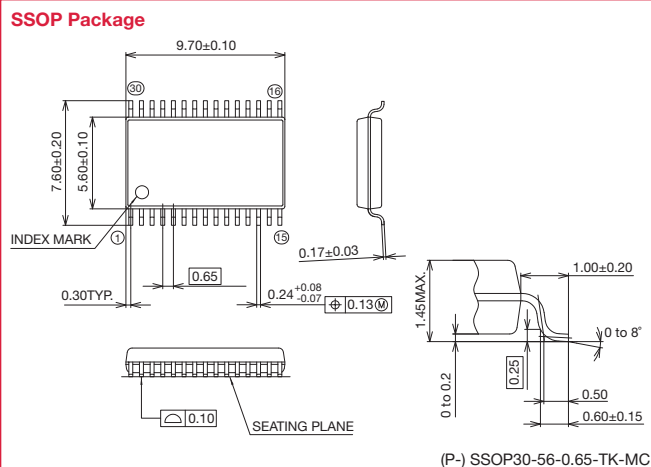
The following shows the convention of item name assignment for conventional products.

- The actual package profile is not shown here.



SOP Packages

(Unit: mm)



	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	TRAY (pcs)	T&R (pcs)
SSOP Package Pin Pitch: 1mm	SSOP32-430-1.00-XXX	32	12.0	15.95	2.50	1,280	1,000
SSOP Package Pin Pitch: 0.65mm	(P-) SSOP16-0225-0.65-XXX	16	6.4	5.0	1.15	4,760	2,500
	(P-) SSOP30-56-0.65-XXX	30	7.6	9.7	1.45	2,000	2,000
		30	7.6	9.7	1.85	2,000	2,000
TSSOP Package Pin Pitch: 0.65mm	(P-) TSSOP20-0225-0.65-XXX	20	6.4	6.5	1.10	4,160	2,000
VSSOP Package Pin Pitch: 0.65mm	P-VSSOP8-0150-0.65-XXX	8	4.0	2.9	0.90	—	3,000

Note1: Please check the ROHM's website for detailed dimensions.

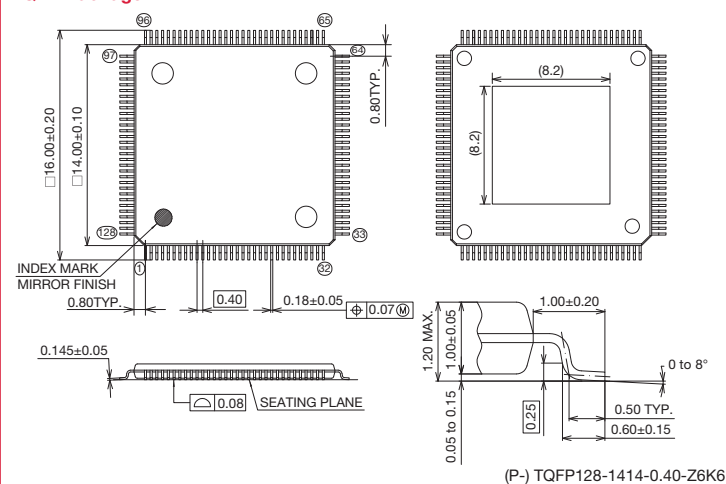
Note2: For suffix shown as “-XXX” in every package profile, suitable optional code should be filled in with, for example on the grounds of the difference of production hub and the difference of internal structure, etc. Please inquire to the sales for details.

These package size are an example. For details, please inquire to the sales.

QFP Packages

(Unit: mm)

TQFP Package



QFP

	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	TRAY (pcs)	T&R (pcs)
QFP Package Pin Pitch: 0.8mm	QFP44-P-910-0.80-XXX	44	13.5	14.5	2.25	1,440	1,000
	(P-) QFP64-1414-0.80-XXX	64	17.2	17.2	2.80	840	—
	(P-) QFP80-1420-0.80-XXX	80	19.0	25.0	2.50	600	—
QFP Package Pin Pitch: 0.65mm	(P-) QFP56-910-0.65-XXX	56	13.5	14.5	2.25	1,400	1,000
	(P-) QFP80-1414-0.65-XXX	80	17.2	17.2	3.05	840	—
	(P-) QFP100-1420-0.65-XXX	100	19.0	25.0	2.50	600	—

Note1: Please check the ROHM's website for detailed dimensions.

Note2: For suffix shown as "-XXX" in every package profile, suitable optional code should be filled in with, for example on the grounds of the difference of production hub and the difference of internal structure, etc. Please inquire to the sales for details.

LQFP

	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	TRAY (pcs)	T&R (pcs)
LQFP Package Pin Pitch: 0.8mm	(P-) LQFP32-0707-0.80-XXX	80	9.0	9.0	1.600	2,500	1,000
LQFP Package Pin Pitch: 0.50mm	(P-) LQFP144-2020-0.50-XXX	50	22.0	22.0	1.600	600	—

Note1: Please check the ROHM's website for detailed dimensions.

Note2: For suffix shown as "-XXX" in every package profile, suitable optional code should be filled in with, for example on the grounds of the difference of production hub and the difference of internal structure, etc. Please inquire to the sales for details.

TQFP

	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	TRAY (pcs)	T&R (pcs)
TQFP Package Pin Pitch: 0.80mm	(P-) TQFP32-0707-0.80-XXX	32	9.0	9.0	1.20	2,500	1,000
	(P-) TQFP44-1010-0.80-XXX	44	12.0	12.0	1.20	1,600	1,000
TQFP Package Pin Pitch: 0.65mm	(P-) TQFP52-1010-0.65-XXX	52	12.0	12.0	1.20	1,600	1,000
TQFP Package Pin Pitch: 0.5mm	(P-) TQFP48-0707-0.50-XXX	48	9.0	9.0	1.20	2,500	1,000
	(P-) TQFP64-1010-0.50-XXX	64	12.0	12.0	1.20	1,600	1,000

Note1: Please check the ROHM's website for detailed dimensions.

Note2: For suffix shown as "-XXX" in every package profile, suitable optional code should be filled in with, for example on the grounds of the difference of production hub and the difference of internal structure, etc. Please inquire to the sales for details.

These package size are an example. For details, please inquire to the sales.

QFP Packages

(Unit: mm)

TQFP

	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	TRAY (pcs)	T&R (pcs)
TQFP Package Pin Pitch: 0.5mm	(P-) TQFP80-1212-0.50-XXX	80	14.0	14.0	1.20	1,190	—
	(P-) TQFP100-1414-0.50-XXX	100	16.0	16.0	1.20	900	—
TQFP Package Pin Pitch: 0.40mm	(P-) TQFP80-1010-0.40-XXX	80	12.0	12.0	1.20	1,600	—
	(P-) TQFP120-1414-0.40-XXX	120	16.0	16.0	1.20	900	—
	(P-) TQFP128-1414-0.40-XXX	128	16.0	16.0	1.20	900	—

Note1: Please check the ROHM's website for detailed dimensions.

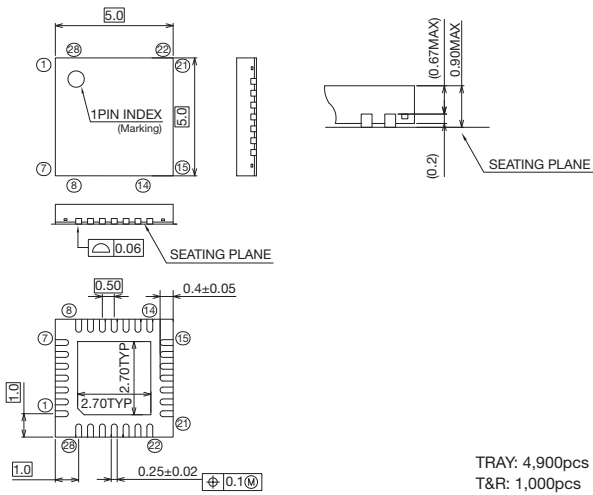
Note2: For suffix shown as "XXX" in every package profile, suitable optional code should be filled in with, for example on the grounds of the difference of production hub and the difference of internal structure, etc. Please inquire to the sales for details.

QFN Packages

(Unit: mm)

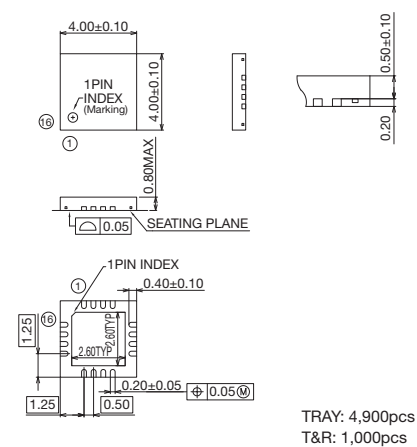
VQFN

P-VQFN28-0505-0.50-U66

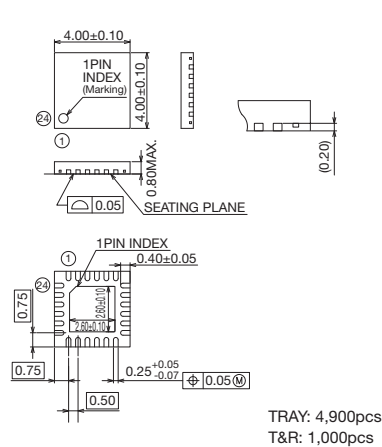


WQFN

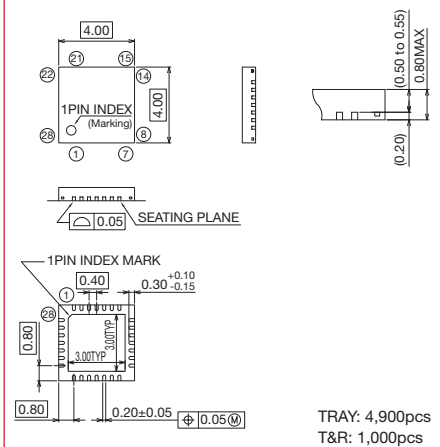
P-WQFN16-0404-0.50-63



P-WQFN24-0404-0.50-A63



P-WQFN28-0404-0.40-63



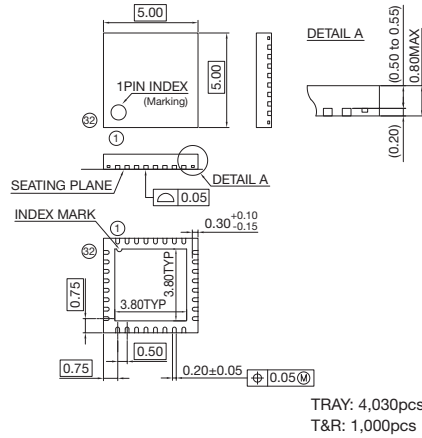
These package size are an example. For details, please inquire to the sales.

QFN Packages

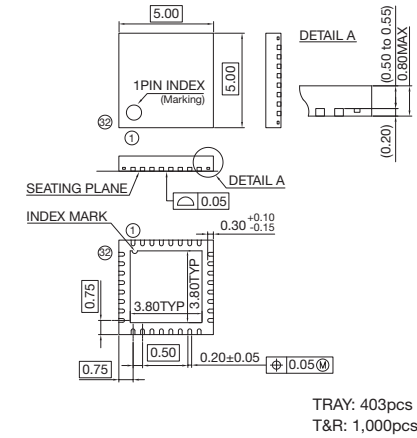
(Unit: mm)

WQFN

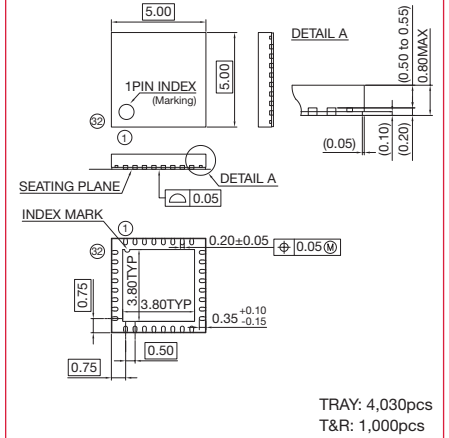
P-WQFN32-0505-0.50-A63



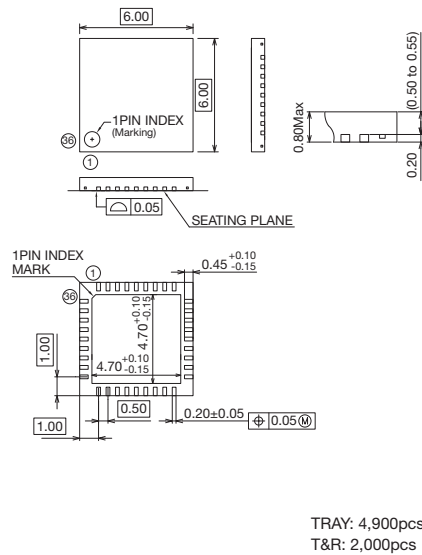
P-WQFN32-0505-0.50-A63-MC



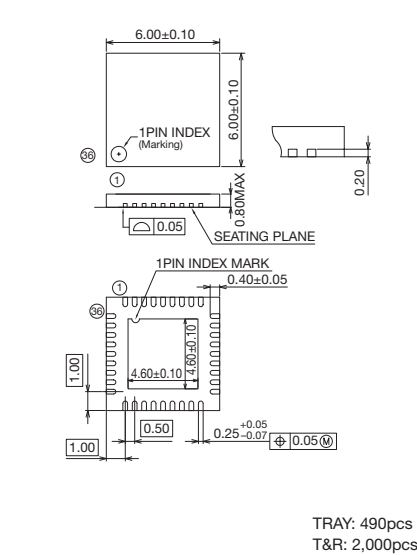
P-WQFN32-0505-0.50-W66



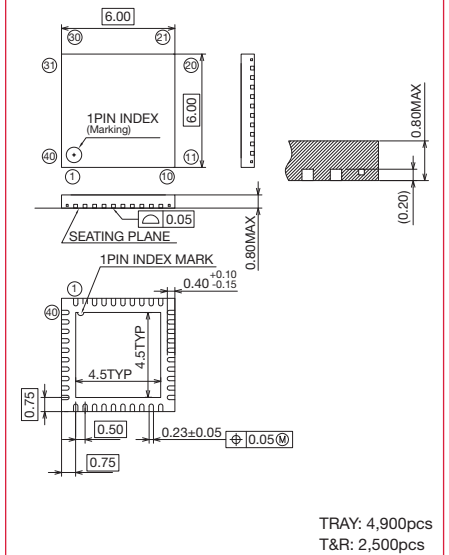
WQFN36-0606-0.50-A63



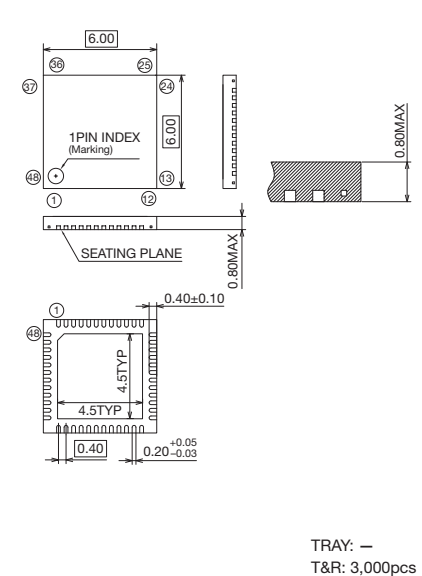
P-WQFN36-0606-0.50-T63



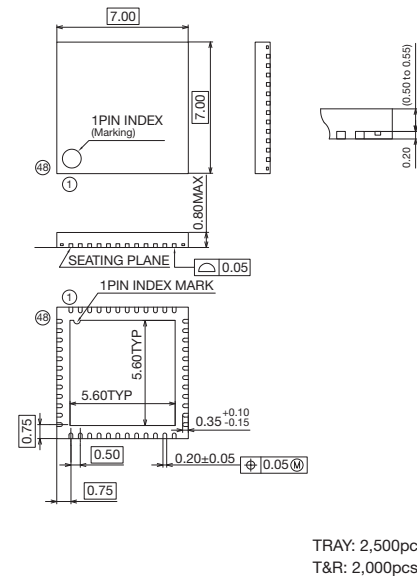
P-WQFN40-0606-0.50-63



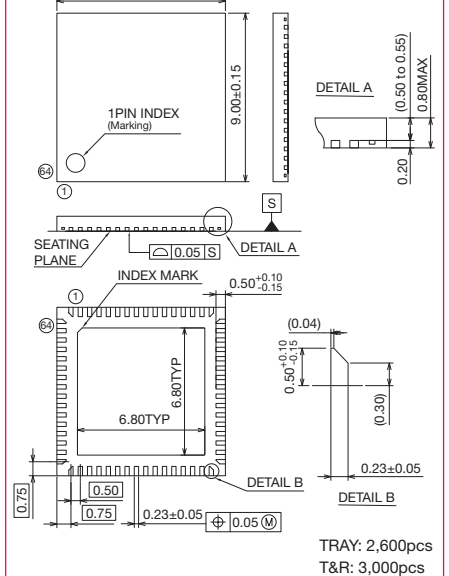
P-WQFN48-0606-0.40-T63-MC



P-WQFN48-0707-0.50-63



P-WQFN64-0909-0.50-63



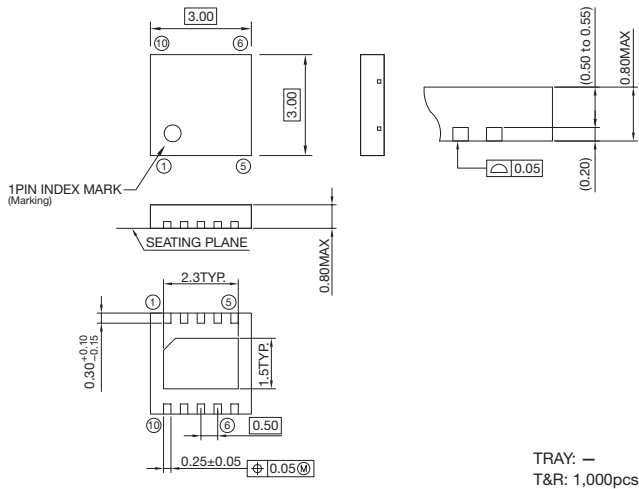
These package size are an example. For details, please inquire to the sales.

WSN Packages

(Unit: mm)

WSON

P-WSN10-0303-0.50-63



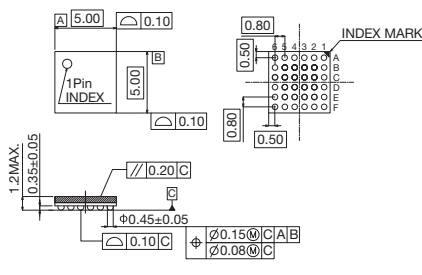
TRAY: —
T&R: 1,000pcs

BGA Packages

(Unit: mm)

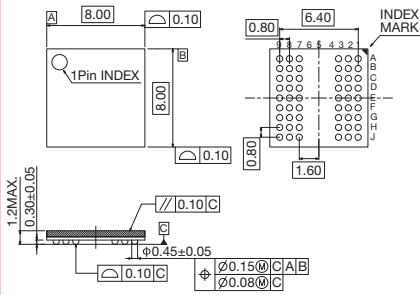
TFBGA

P-TFBGA36-0505-0.80-9



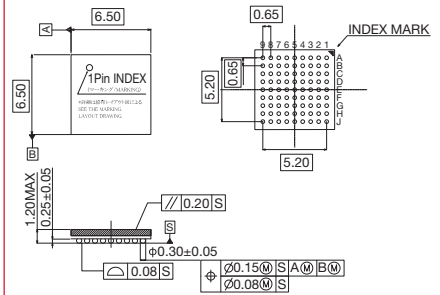
TRAY: 3,770pcs
T&R: —

P-TFBGA54-0808-0.80-9



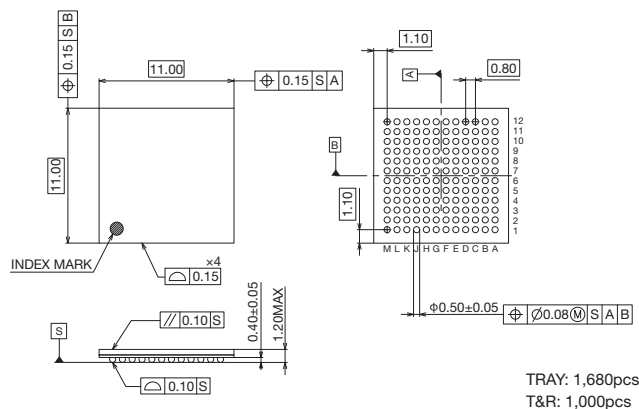
TRAY: 3,480pcs
T&R: 2,000pcs

P-TFBGA81-6.5x6.5-0.65-9-MC



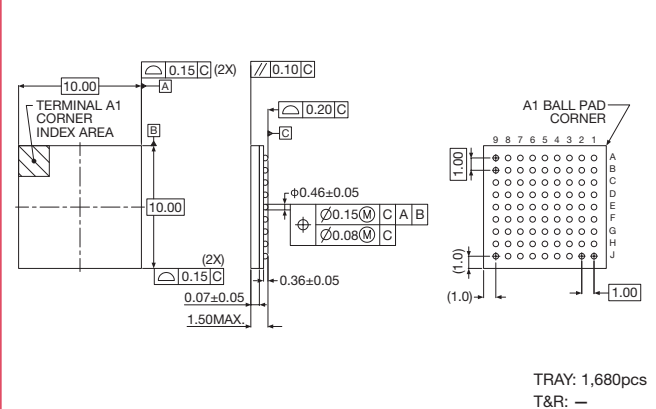
TRAY: —
T&R: 2,000pcs

P-TFBGA144-1111-0.80-1



TRAY: 1,680pcs
T&R: 1,000pcs

P-LBGA81-1010-1.00-1-MC



TRAY: 1,680pcs
T&R: —

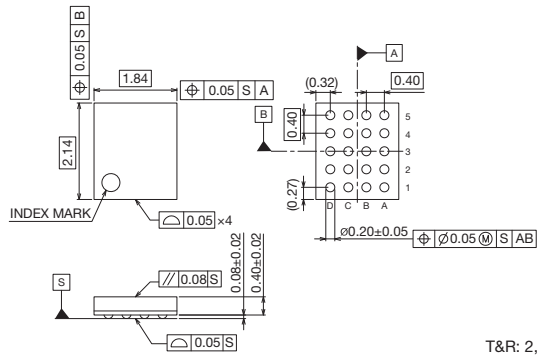
These package size are an example. For details, please inquire to the sales.

WL-CSP Packages

(Unit: mm)

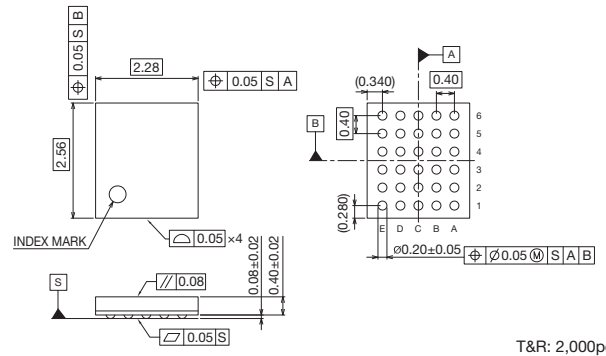
WCSP

S-UFLGA20-1.84×2.14-0.40-W



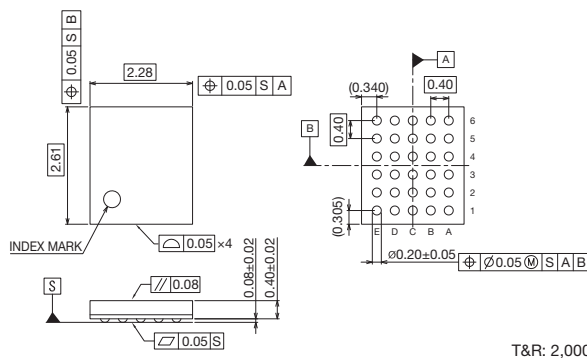
T&R: 2,000pcs

S-UFLGA30-2.28×2.56-0.40-W



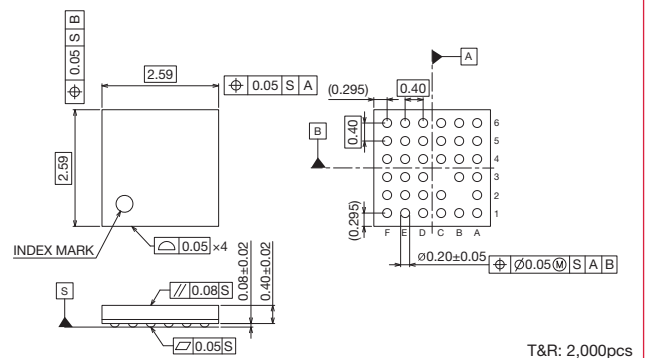
T&R: 2,000pcs

S-UFLGA30-2.28×2.61-0.40-W



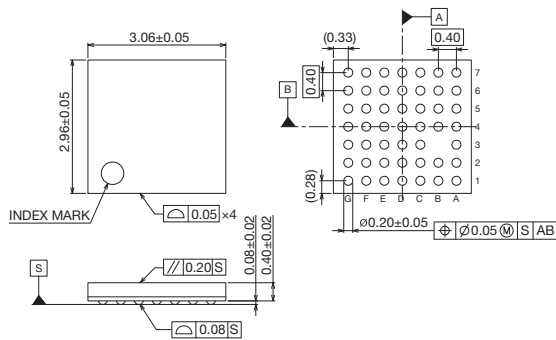
T&R: 2,000pcs

S-UFLGA34-2.59×2.59-0.40-W



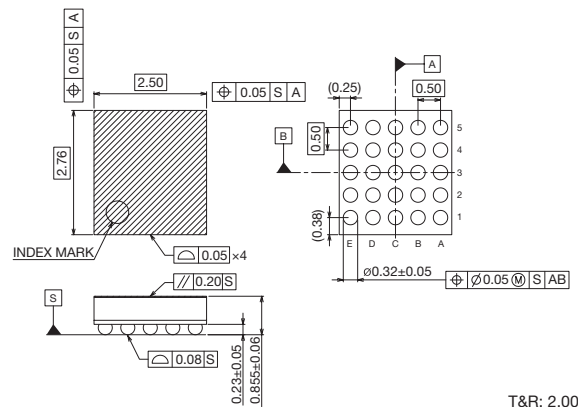
T&R: 2,000pcs

S-UFLGA48-3.06×2.96-0.40-W



T&R: 2,000pcs

S-VFBGA25-2.76×2.50-0.50-W



T&R: 2,000pcs

IC Packages