Part No. Explanation

(Unit: mm)

- When ordering, specify the part number.
- Check each code against the tables shown below.
- Fill in from the left, leaving any extra boxes empty on the right.

| B | A | 4 | 5 | 5 | 8 | F | — | D | X | E | 2 |

Part No.

Custom Specification code
Alphabetical symbols specify custom product. Standard product has no symbols.

Packaging and forming specification

E2	Embossed tape and reel	Pin 1 fed last
E1	Embossed tape and reel	Pin 1 fed first
TR	Embossed tape and reel	Pin 1 fed last
TL	Embossed tape and reel	Pin 1 fed first

Ordering information

1. A packaging specification is not required for packaging other than taping.
   (Ex.) BA4558F or BA4558F-DX

2. A packaging specification is required for tape packaging.
   (Ex.) Example of E2-oriented embossed taping: BA4558F-E2 or BA4558F-DXE2

For example

*Take E2 as standard if no special request is made.

*Take TR as standard if no special request is made.
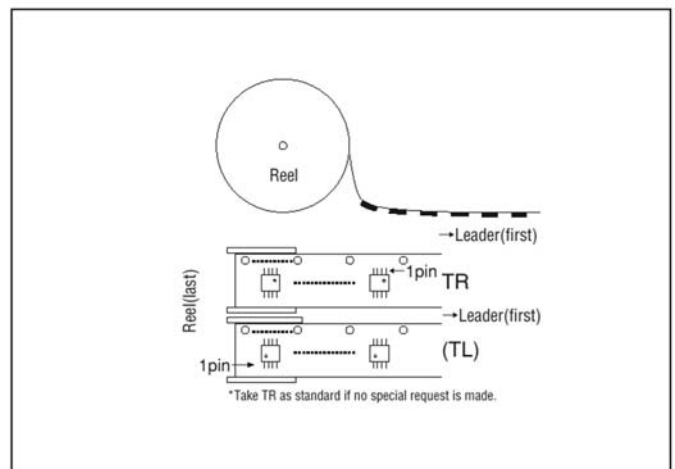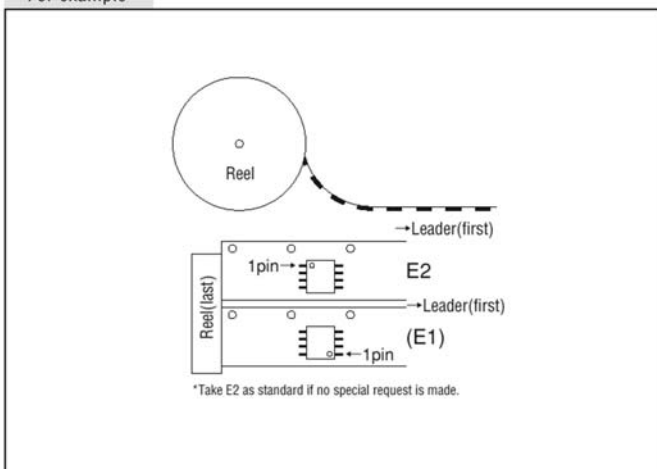
Package Ordering Units

● Embossed tape packaging <Package specification name : E2(E1)>

Package ordering unit quantity	Non - Lead Gull Wing Packages	SOP Packages	Power Packages	QFP Packages	BGA / QFN
5,000	*SSON004X1216 SSON004X1010	–	–	–	–
4,000	USON016X3315	–	–	–	–
3,000	*SOP4, *SSOP5/6, *VSOF5, *HVSOF5/6,*MSOP8, *WSOF5/6/6I, *HSON8 *VSON008V2030, VSON008X2030, VSON010X3020, VSON010X3030, VSON010V3030	TSSOP-B8	–	–	3×3mm
2,500	–	SOP8/14/16, SSOP-A16, TSSOP-C10J, TSSOP-B14J SSOP-B8/14/16/20, SOP-J8/14, HTSSOP-B20/28, HTSOP-J8, TSSOP-B8J, HTSSOP-B8J	–	–	4×4mm, 5×5mm
2,000	–	SOP18/20/22/24, HTSSOP-B30, SSOP-A20/24/32, SSOP-B24/28/40, HTSSOP-C48,HTSSOP-B24/40, HSOP25, TSSOP-C48V, TSSOP-C44	*HRP5/7, SOT223-5, TO252S-3/5, TO252S-7+	–	6×6mm
1,500	–	SOP28, SSOP-A44, HTSSOP-A44/B54/A44R/B54R HSOP28/M28/M36	–	QFP32, VQFP48C, UQFP64,TQFP64U	7×7mm
1,000	–	–	–	QFP44, VQFP64, VQFP80, UQFP100,TQFP64V	8×8mm, 9×9mm, 10×10mm
500	–	–	TO220CP-3/V5	QFP-A64, VQFP100	–

1) ★:Package specification : TR(TL)   2) Specification differ by package size of WL-CSP

● Tray packaging

Pin pitch: 0.8 mm	Pin pitch: 0.65 mm	Pin pitch: 0.5 mm	Pin pitch: 0.4 mm	Dimensions (mm) d X e	Individual package quantity	Tray quantity	Package ordering unit quantity	Tomson Case dimensions (mm) A x B x C
QFP32	–	VQFP48C	–	175×166	100	10	1,000	60×200×200
QFP44	SQFP56, SQFP-T52, SQFP-T64	VQFP64, VQFP80, TQFP64V, TQFP80V, HTQFP64V, TQFP48V	UQFP64, UQFP80, UQFP100, TQFP64U	216×116	50	20	1,000	70×130×510
QFP-A64, QFP80/T80	SQFP80, SQFP-T80C, SQFP100/T100	VQFP100, VQFP128, TQFP100V, HTQFP100V	UQFP120, TQFP128U	256×166	50	10	500	75×200×290
QFP120	SQFP160C	VQFP208	–	322.6×135.9	24	10	240	75×140×338
–	–	–	UQFP256	322.6×135.9	36	10	360	75×140×338
–	–	VQFP176	–	322.6×135.9	40	10	400	75×140×338
–	–	–	TQFP176U	201.1×141.05	20	10	200	75×200×290
–	–	VQFP144 / T144	UQFP160/184	322.6×135.9	60	10	600	75×140×338

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