

# Packaging for Despatch

May 2022

The table on the previous page illustrates the physical appearances of CML's integrated circuit packages (for clarity, suffixes used in older documentation are shown within the relevant cell).

For handling/loading ease and convenience, CML products are packed for despatch in industry-standard bulk or individual packaging as described below:

- Trays and cardboard boxes with conductive foam
- Pocketed conductive trays for surface-mount microcircuits
- Antistatic coated tubes, of various sizes, with thumb plugs or pins
- 7-inch and 13-inch reel Tape-and-Reel packaging which fully conforms to the latest International Electrotechnical Commission (IEC) specification. The conductive embossed tape provides a secure cavity sealed with a peel-back cover tape.

Relevant configurations are shown in the table below; no partial reel counts are available.

CML provide RoHS compliant, lead-free (Pb-free) products. CML's Environmental Policy can be found in the 'Quality' section of the CML website ([www.cmlmicro.com](http://www.cmlmicro.com)).

**Note:** For the purposes of this document, the physical IC connection descriptions of 'lead', 'leadless' and 'pin' etc. are represented by the single term of 'pin'.

Suffix	Description	Tube MOQ	Tape	Per Tray
B1	144 BGA		1000/1500	240
D1	28-pin SOIC	27	1000/1500	
D2	24-pin SOIC	31	1000/1500	
D3	20-pin SOIC	38	1000/1500	
D4	16-pin SOIC	47	1000/1500	
D5	24-pin SSOP	59	1000	
D6	28-pin SSOP	47	1000	
E1	28-pin TSSOP	50	1000/2000/3000	
E2	24-pin TSSOP	62	1000/2000/3000	
E3	20-pin TSSOP	74	1000/2000/3000	
E4	16-pin TSSOP	95	1000/2000/3000	
L4	48-pin LQFP (Gull)		1000	250
L6	44-pin PLCC (Hook)	27	500	
L7	44-pin LQFP (Gull)		1000	160
L8	100-pin LQFP (Gull)		1000	90
L9	64-pin LQFP (Gull)		1000	160
Q1	64-pin VQFN		1000/2000/3000/3500	260
Q2	56-pin VQFN		1000/2000/3000/3500	260
Q3	48-pin VQFN		1000/2000/3000/3500	416
Q4	40-pin VQFN		1000/2000/3000/3500	490
Q5	32-pin VQFN		1000/2000/3000/4000/5000	490
Q6	24-pin VQFN		1000/2000/3000/4000/5000	490
Q7	16-pin VQFN		1000/2000/3000/4000/5000	490
QF	16-pin VQFN		1000/2000/3000/4000/5000	490
QH	20-pin VQFN		1000/2000/3000/4000/5000	490
QT1	64-pin VQFN		1000/2000/3000/3500	260
QT8	28pin VQFN		1000/2000/3000/4000/5000	490
T1	48 LGA		1000/2000/3000/4000/5000	416

Where your packaging requirement is not detailed above, please contact CML Microcircuits or your local distributor or representative.

Tape and Reel products are ordered by adding the suffix "T/R" to the part number.

For up-to-date information, please visit the CML website or contact CML