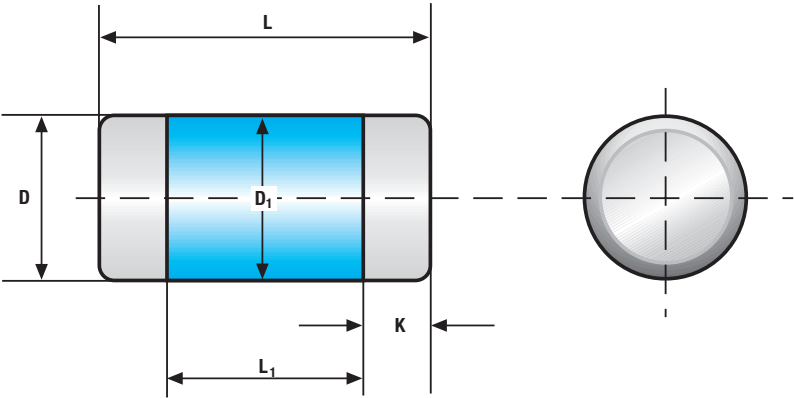


Product Dimensions

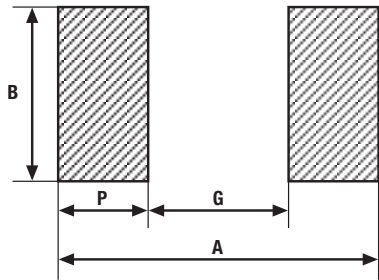
Style		MMU 0102	MMA 0204 CMA 0204	MMB 0207
DIN - Size		0102	0204	0207
CECC - Size		RC 2211	RC 3715	RC 6123
D	mm	max 1,1	max 1,4	max 2,2
D ₁	mm	min 1,06 / max 1,1	min 1,25 / max 1,4	min 2,0 / max 2,2
L	mm	max 2,2	max 3,6	max 5,8
L ₁	mm	min 1,2	min 1,8	min 2,8
K	mm	min 0,35 / max 0,45	min 0,5 / max 0,85	min 1,1 / max 1,4
Weight	mg	7,8	19	78



PCB Layout Recommendations • Reflow Soldering

Size		0102	0204	0207
CECC - Size		RC 2211	RC 3715	RC 6123
B	mm	1,3	1,6	2,5
P	mm	0,5	0,8	1,6
G	mm	1,3	2,2	2,9
A	mm	2,3	3,8	6,1

The used soldering process determines optimum pad size.
The pad size has an influence on the achievable power dissipation.
Alternative recommendations and comprehensive information are given in the American Standard IPC-SM-782: Surface Mount Design and Land Pattern Standard.



PCB Layout Recommendations • Wave Soldering

Size		0102	0204	0207
CECC - Size		RC 2211	RC 3715	RC 6123
B	mm	1,3	1,6	2,5
P	mm	0,6	1,2	2,4
G	mm	1,3	1,8	2,8
A	mm	2,5	4,2	7,6

The used soldering process determines optimum pad size.
The pad size has an influence on the achievable power dissipation.
Alternative recommendations and comprehensive information are given in the American Standard IPC-SM-782: Surface Mount Design and Land Pattern Standard.

Coding

Style	MMU 0102	MMA 0204	MMB 0207	CMA 0204
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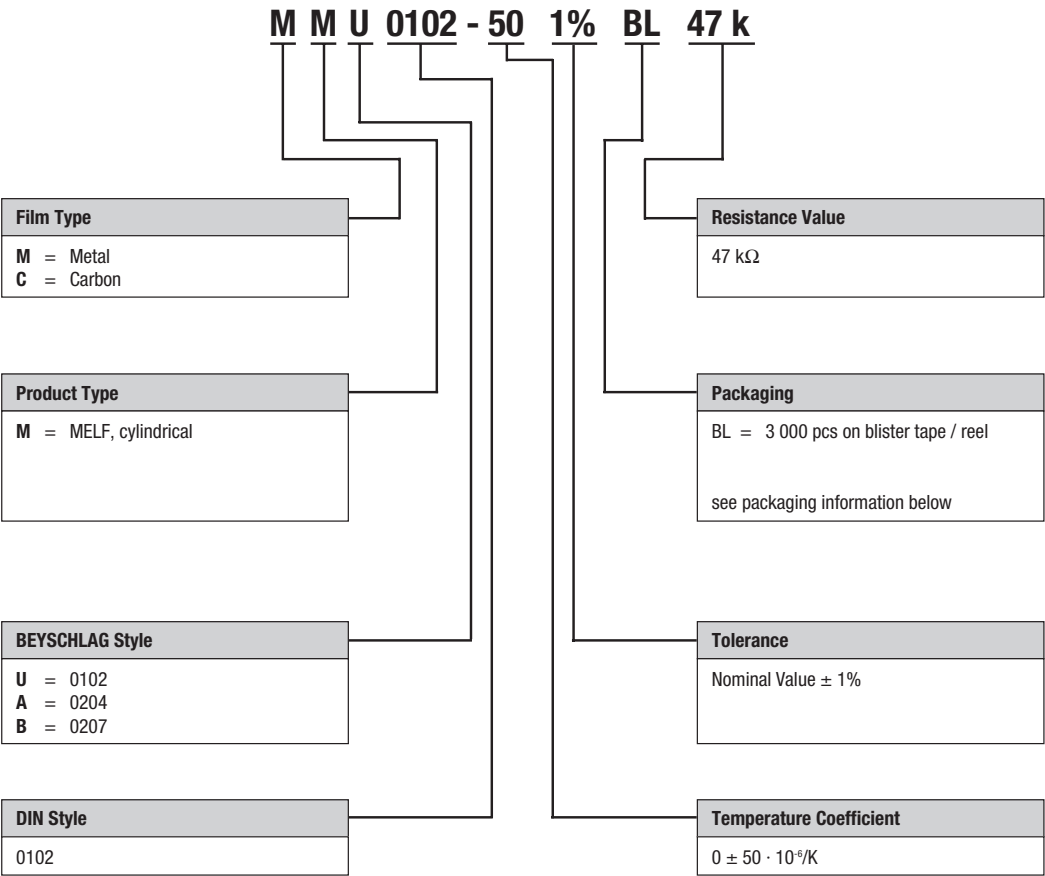
Product Coding vs. Tolerance				
5 %	4 bands	4 bands	4 bands	5 bands
2 %	4 bands	–	4 bands	
1 %	5 bands	5 bands	5 bands	
0,5 %	5 bands	5 bands	5 bands	
0,25 %	5 bands	5 bands	5 bands	
0,1 %	5 bands	5 bands	5 bands	

Jumpers are marked by one black colour band

Colour Dot Markings				
TC 100	–	–	none	
TC 50	none	none	none	
TC 25	yellow dots	yellow dots	yellow dots	
TC 15	orange dots	orange dots	orange dots	
TC 10	blue dots	blue dots	–	
TC 05	violet dots	violet dots	–	
HF	black dots	black dots	–	brown dots
carbon film	–	–	–	

According to IEC 60 062

Order Code Example



Jumpers are ordered by the resistance value 0 Ω, e.g. **MMA 0204 BL 0R0**.
For **CMA 0204** no temperature coefficient is specified.

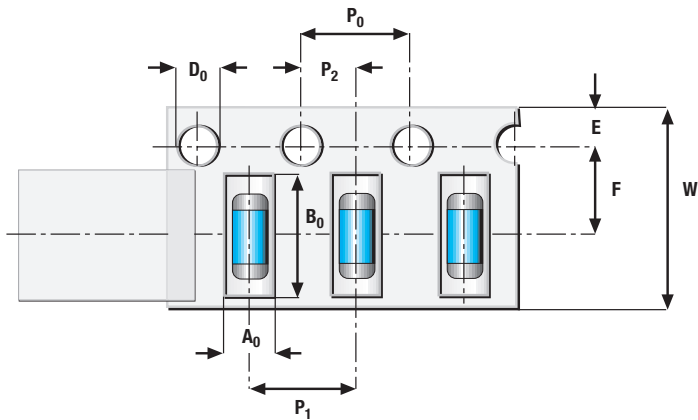
Packaging Information

Style			MMU 0102	MMA 0204	MMB 0207	CMA 0204
Blister Tape	B1 *	pcs.	1 000	1 000	–	–
* precision only						
Blister Tape	B2	pcs.	–	–	2 000	–
Blister Tape	BL	pcs.	3 000	3 000	–	3 000
Blister Tape	B7	pcs.	–	–	7 000	–
Blister Tape	B0	pcs.	10 000	10 000	–	10 000
Bulk Case	M3	pcs.	–	3 000	–	–
Bulk Case	M8	pcs.	8 000	–	–	–

Blister Tape

Style		MMU 0102	MMA 0204	MMB 0207
			CMA 0204	
A ₀	mm	1,3 ⁰ _{-0,05}	1,55 ± 0,1	2,4 ± 0,1
B ₀	mm	2,45 ^{+0,05} ₀	3,7 ± 0,1	6,0 ± 0,1
E	mm	1,75 ± 0,1		
F	mm	3,5 ± 0,05	3,5 ± 0,05	5,5 ± 0,05
D ₀	mm	1,5 ^{+0,1} ₀		
P ₀	mm	4,0 ± 0,1		
P ₁	mm	4,0 ± 0,1		
P ₂	mm	2,0 ± 0,05		
W	mm	8,0 ± 0,3	8,0 ± 0,3	12,0 ± 0,3

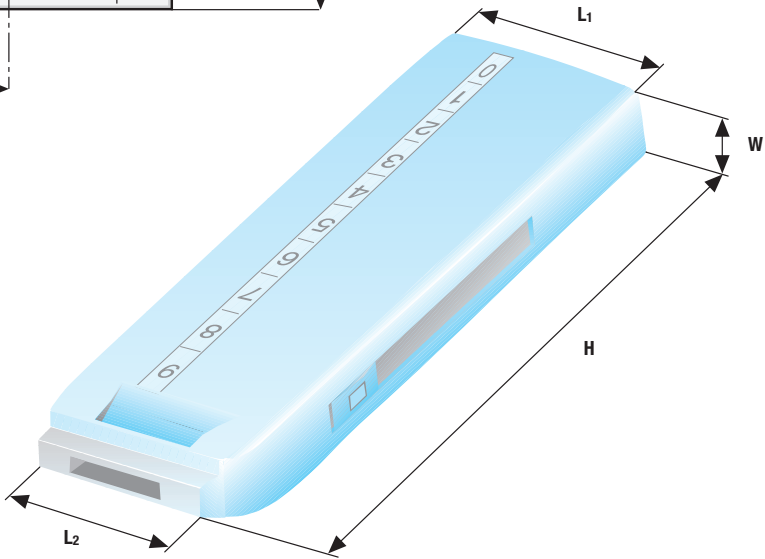
According to IEC 60 286-3 type II



Bulk Case

Style		MMU 0102
		MMA 0204
L ₁	mm	36
H	mm	110
W	mm	12
L ₂	mm	31,5

According to IEC 60 286-6



Reel

Style

MMU 0102

MMA 0204

MMB 0207

CMA 0204

		B1, BL	B0	B1, BL	B0	B2	B7
A	mm	180	330	180	330	180	330
E	mm	2,5 ± 0,5					
D	mm	22,5 ± 2,0					
W ₁	mm	8,4 ^{+ 1,5} ₀	8,4 ^{+ 1,5} ₀	8,4 ^{+ 1,5} ₀	8,4 ^{+ 1,5} ₀	12,4 ^{+ 1,5} ₀	12,4 ^{+ 1,5} ₀
C	mm	13,0 ^{+ 0,5} _{- 0,25}					
N	mm	62					
W ₂	mm	max 14,4		max 14,4		max 18,4	

