

Multilayer Ceramic Capacitors for Mobile Devices Only

REFLOW

PART NUMBER

M	E	A	S	A	0	4	2	S	B	5	2	2	4	M	W	N	A	0	1
①				②	③		④	⑤		⑥		⑦		⑧	⑨			⑩	

① Series

Code (1)(2)(3)(4)	
MEAS	Multilayer Ceramic Capacitor for Mobile Devices Only

(1) Product Group

Code	
M	Multilayer Ceramic Capacitor

(3) Type

Code	
A	2 terminals

(2) Category

Code	Recommended equipment	Quality Grade
E	Only for Mobile devices	4

(4) Features, Characteristics

Code	
S	Standard/General

② Rated voltage

Code	Rated voltage [VDC]
P	2.5
A	4
J	6.3
L	10
E	16

④ Thickness

Code	Thickness [mm]
2	0.2
3	0.3
5	0.5
8	0.8
G	1.25
L	1.6
M	2.5

③ Dimension

Code	(L × W) [mm]	JIS(mm)	EIA(inch)
04	0.4 × 0.2	0402	01005
06	0.6 × 0.3	0603	0201
1L	1.0 × 0.5	1005	0402
10	1.0 × 0.5	1005	0402
16	1.6 × 0.8	1608	0603
21	2.0 × 1.25	2012	0805
31	3.2 × 1.6	3216	1206
32	3.2 × 2.5	3225	1210

⑤ Dimension tolerance

Code	Dimension code	L [mm]	W [mm]	T [mm]	Thickness code
A	32	3.2±0.30	2.5±0.30	2.5±0.30	M
	06	0.6±0.09	0.3±0.09	0.3±0.09	3
B	21	2.0+0.20/-0	1.25+0.20/-0	1.25+0.20/-0	G
	31	3.2±0.30	1.6±0.30	1.6±0.30	L
C	06	0.6+0.15/-0.05	0.3+0.15/-0.05	0.3+0.15/-0.05	3
	10	1.0+0.20/-0	0.5+0.20/-0	0.5+0.20/-0	5
	1L	1.0+0.20/-0	0.5+0.20/-0	0.3±0.03	3
N	10	1.0+0.20/-0	0.5+0.20/-0	0.5+0.30/-0	5
P	06	0.6±0.09	0.3±0.09	0.2±0.02	2
Q	06	0.6±0.09	0.3±0.09	0.5±0.05	5
S	04	0.4±0.02	0.2±0.02	0.2±0.02	2

⑥Temperature characteristics code

Code	Applicable standard		Temperature range [°C]	Ref. Temp. [°C]	Capacitance change	Capacitance tolerance	Tolerance code
B5	JIS	B	-25 ~ + 85	20	± 10%	± 10%	K
						± 20%	M
	EIA	X5R	-55 ~ + 85	25	± 15%	± 10%	K
						± 20%	M
C6	EIA	X6S	-55 ~ + 105	25	± 22%	± 10%	K
						± 20%	M
D6	EIA	X6T	-55 ~ + 105	25	+ 22 / - 33%	± 10%	K
						± 20%	M

⑦Nominal capacitance

Code (example)	Nominal capacitance
0R5	0.5pF
010	1pF
100	10pF
101	100pF
102	1,000pF
103	0.01μF
104	0.1μF
105	1μF
106	10μF
107	100μF

Note : R=Decimal point

⑧Capacitance tolerance

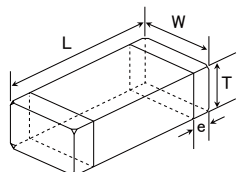
Code	Capacitance tolerance
K	± 10%
M	± 20%

⑨Packaging

Code	Packaging
A	φ178mm Taping
F	φ178mm Taping (2mm pitch)
T	φ178mm Taping (4mm pitch)
P	φ178mm Taping (4mm pitch, 1000 pcs/reel) 3225 type (Thickness code M)
W	φ178mm Embossed Taping (1mm pitch) 0201/0402 type

⑩Internal code

■ STANDARD EXTERNAL DIMENSIONS



Type	JIS (mm)	EIA (inch)	Dimension [mm]				
			L	W	T	*1	e
MEAS□04	0402	01005	0.4±0.02	0.2±0.02	0.2±0.02	2	0.1±0.03
MEAS□06	0603	0201	0.6±0.03	0.3±0.03	0.3±0.03	3	0.15±0.05
MEAS□1L	1005	0402	1.0±0.05	0.5±0.05	0.3±0.03	3	0.25±0.10
MEAS□10	1005	0402	1.0±0.05	0.5±0.05	0.5±0.05	5	0.25±0.10
MEAS□16	1608	0603	1.6±0.10	0.8±0.10	0.8±0.10	8	0.35±0.25
MEAS□21	2012	0805	2.0±0.10	1.25±0.10	1.25±0.10	G	0.5±0.25
MEAS□31	3216	1206	3.2±0.15	1.6±0.15	1.6±0.20	L	0.5+0.35/-0.25
MEAS□32	3225	1210	3.2±0.30	2.5±0.20	2.5±0.20	M	0.6±0.30

Note : * Thickness Code

■ STANDARD QUANTITY

Type			Thickness		Standard quantity [pcs]	
記号	JIS(mm)	EIA(inch)	[mm]	記号	紙テープ	エンボステープ
04	0402	01005	0.2	2	—	40000
06	0603	0201	0.3	3	15000	—
1L	1005	0402	0.3	3	15000	—
10	1005	0402	0.5	5	10000	—
16	1608	0603	0.8	8	4000	—
21	2012	0805	1.25	G	—	3000
31	3216	1206	1.6	L	—	2000
32	3225	1210	2.5	M	—	1000