

EMC Chip Filters M-500CT/M-600T Series

[RoHS Compliant]



• Tape and Reel Dimensions (see page 36-38) • Precautions (see page 35)

M-500CT Series

Model	Rated voltage DC (V)	Rated current DC (A)	Impedance (Ω) min.	DC resistance (m Ω) max.	Operating temperature range (°C)
M-521CT	50	1.0	700 (at 10 MHz)	100	-25~+85
M-522CT	50	1.0	200 (at 20 MHz)	100	-25~+85
M-523CT	50	1.5	200 (at 20 MHz)	65	-25~+85
M-524CT	80	0.5	700 (at 10 MHz)	100	-25~+85
M-532CT	50	0.5	450 (at 100 MHz)	90	-25~+85
M-538CT	50	0.1	800 (at 100 MHz)	220	-25~+70
M-542CT	50	0.5	200 (at 10 MHz)	120	-20~+75
M-543CT	50	1.0	700 (at 10 MHz)	100	-25~+85

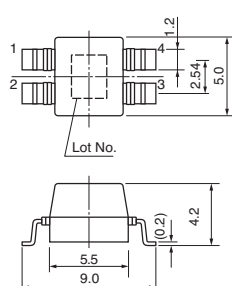
M-600T Series

Model	Rated voltage DC (V)	Rated current DC (A)	Impedance (Ω) min.	DC resistance (m Ω) max.	Operating temperature range (°C)
M-608T	50	0.1	300 (at 100 MHz)	80	-20~+80
M-614T	50	0.1	1000 (at 50 MHz)	120	-20~+80
M-620T	50	0.1	1000 (at 30 MHz)	160	-20~+80

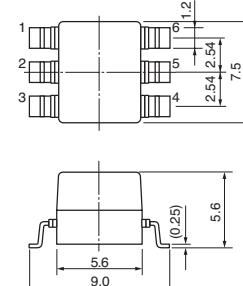
• Insulation resistance: more than 10M Ω (100V DC, between lines)

Shape and Dimensions

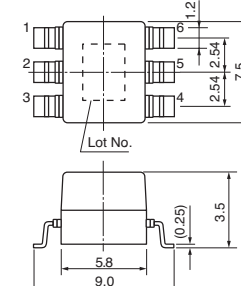
●M-521CT, M-522CT, M-523CT, M-524CT



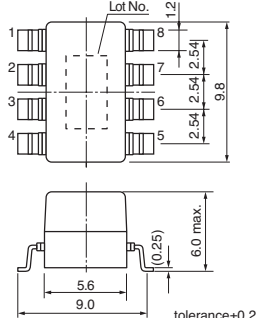
●M-532CT



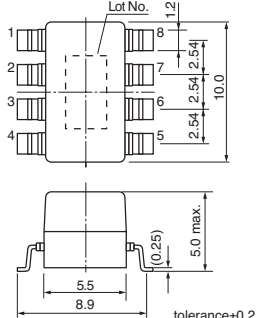
●M-538CT



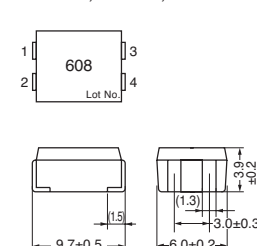
●M-542CT



●M-543CT



●M-608T, M-614T, M-620T



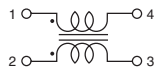
[mm]



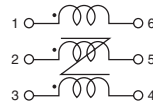
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Circuit Diagram

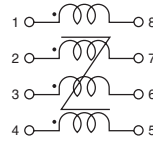
●M-521CT, M-522CT, M-523CT, M-524CT



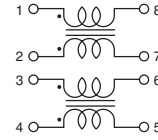
●M-532CT, M-538CT



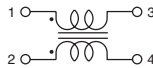
●M-542CT



●M-543CT

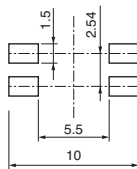


●M-608T, M-614T, M-620T

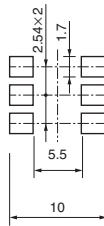


Recommended Land Pattern

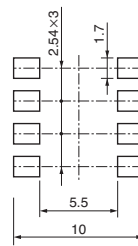
●M-521CT, M-522CT
M-523CT, M-524CT



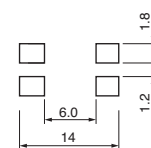
●M-538CT, M-532CT



●M-542CT, M-543CT



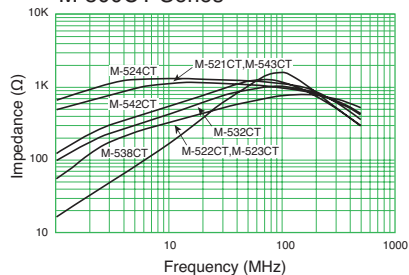
●M-608T, M-614T, M-620T



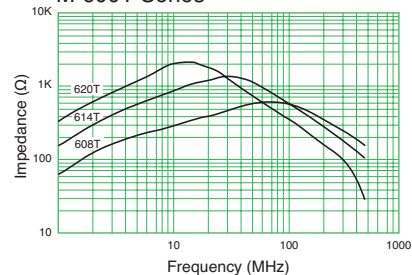
[mm]

Impedance vs. Frequency

M-500CT Series



M-600T Series

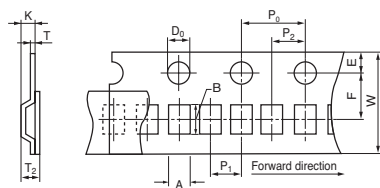


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Tape and Reel Dimensions

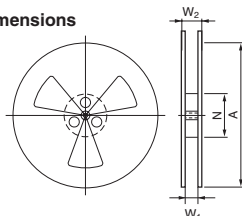
SBS9080 (1000pcs./reel)

Dimensions of indented square hole plastic tape



[mm]											
A	B	W	F	E	P ₁	P ₂	P ₀	D ₀	T ₁	T ₂	K
±0.3	±0.3	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1, -0	0.6 $\geq$	7.2 $\geq$	7.0 $\geq$
9.5	10.3	16	7.5	1.75	12	2.0	4.0	1.5	0.6	7.2	7.0

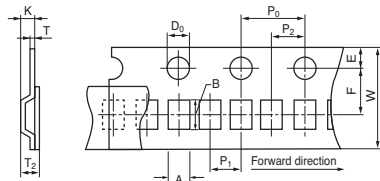
Reel dimensions



[mm]			
A	N	W ₁	W ₂
		±0.5	25 $\geq$
330	100	17.5	25

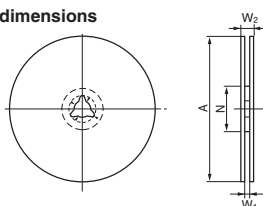
SBP-5001T (1000pcs./reel)

Dimensions of indented square hole plastic tape



[mm]											
A	B	W	F	E	P ₁	P ₂	P ₀	D ₀	T ₁	T ₂	K
±0.3	±0.3	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1, -0	0.4 $\geq$	5.7 $\geq$	5.8 $\geq$
9.0	9.0	16	7.5	1.75	12	2.0	4.0	1.5	0.4	5.7	5.8

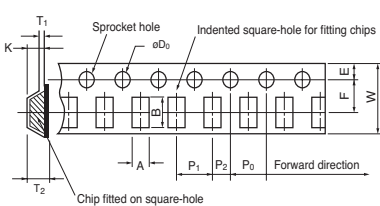
Reel dimensions



[mm]			
A	N	W ₁	W ₂
		+6, -0	25 $\geq$
330	79	16	25

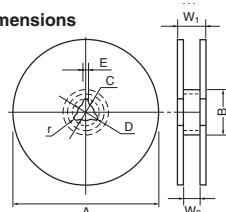
M-521CT/M-522CT/M-523CT/M-524CT (conforms to EIAJ RC-1009) (1500pcs./reel)

Dimensions of indented square hole plastic tape



[mm]											
A	B	W	F	E	P ₁	P ₂	P ₀	D ₀	T ₁	T ₂	K
±0.3	±0.3	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1, -0	max.	max.	max.
5.3	9.5	16	7.5	1.75	8.0	2.0	4.0	1.5	0.6	6.5	6.4

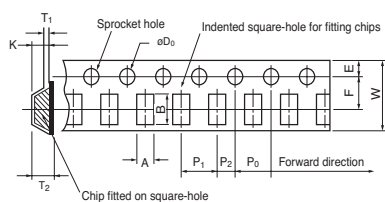
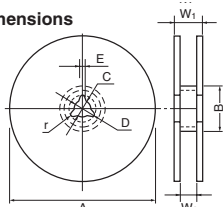
Reel dimensions



[mm]							
A	B	C	D	E	r	W ₁	W ₂
±3.0	±2.0	±0.2	±0.8	±0.5	—	max.	+6, -0
330	79	13	21	2.0	1.0	25	16

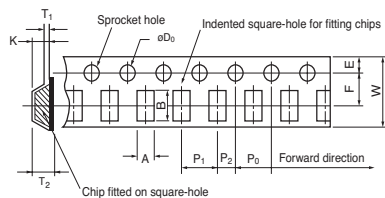
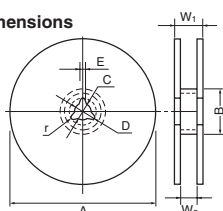


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M-532CT (conforms to EIAJ RC-1009) (1000pcs./reel)**Dimensions of indented square hole plastic tape****Reel dimensions**

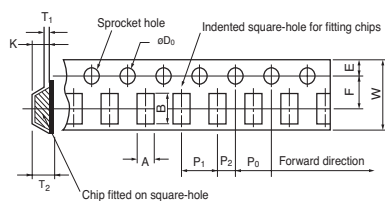
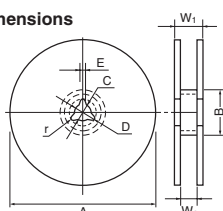
[mm]											
A	B	W	F	E	P ₁	P ₂	P ₀	D ₀	T ₁	T ₂	K
±0.3	±0.3	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1, -0	max.	max.	max.
7.9	9.4	16.0	7.5	1.75	12.0	2.0	4.0	1.5	0.6	6.9	6.8

[mm]							
A	B	C	D	E	r	W ₁	W ₂
±3.0	±2.0	±0.2	±0.8	±0.5	—	max.	+6, -0
330	80	13.0	21.0	2.0	1.0	25.0	16.0

M-538CT (conforms to EIAJ RC-1009) (1500pcs./reel)**Dimensions of indented square hole plastic tape****Reel dimensions**

[mm]											
A	B	W	F	E	P ₁	P ₂	P ₀	D ₀	T ₁	T ₂	K
±0.3	±0.3	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1, -0	max.	max.	max.
7.9	9.4	16.0	7.5	1.75	12.0	2.0	4.0	1.5	0.6	4.6	4.5

[mm]							
A	B	C	D	E	r	W ₁	W ₂
±3.0	±2.0	±0.2	±0.8	±0.5	—	max.	+6, -0
330	80	13.0	21.0	2.0	1.0	25.0	16.0

M-542CT (conforms to EIAJ RC-1009) (1000pcs./reel)**Dimensions of indented square hole plastic tape****Reel dimensions**

[mm]											
A	B	W	F	E	P ₁	P ₂	P ₀	D ₀	T ₁	T ₂	K
±0.3	±0.3	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1, -0	max.	max.	max.
9.5	10.5	16.0	7.5	1.75	12.0	2.0	4.0	1.5	0.6	7.2	7.0

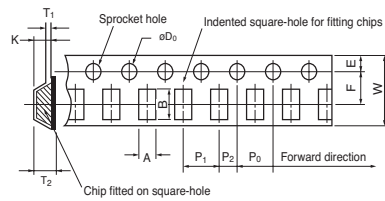
[mm]							
A	B	C	D	E	r	W ₁	W ₂
±3.0	±2.0	±0.2	±0.8	±0.5	—	max.	+6, -0
330	100	13.0	21.0	2.0	1.0	25.0	17.5±0.5



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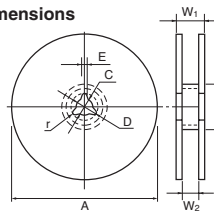
M-608T/M-614T/M-620T (conforms to EIAJ RC-1009) (1500pcs./reel)

Dimensions of indented square hole plastic tape



[mm]											
A	B	W	F	E	P ₁	P ₂	P ₀	D ₀	T ₁	T ₂	K
±0.3	±0.3	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1,-0	max.	max.	max.
6.4	10.2	16.0	7.5	1.75	8.0	2.0	4.0	1.5	0.6	6.5	6.4

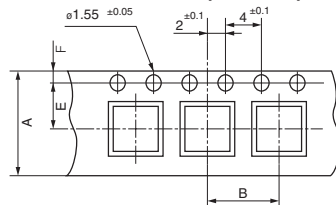
Reel dimensions



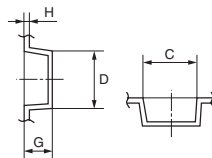
[mm]							
A	B	C	D	E	r	W ₁	W ₂
±3.0	±2.0	±0.2	±0.8	±0.5	—	max.	+6, -0
330	79	13.0	21.0	2.0	1.0	25.0	16.0

DCM5 Series (2000pcs. /reel)

Dimensions of indented square hole plastic tape



[mm]								
Model	A	B	C	D	E	F	G	H
DCM5 Series	16±0.3	8	6.3	8.3	7.5	1.75	5.2	0.38±0.05



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