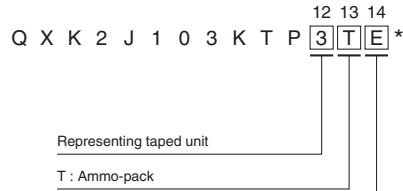
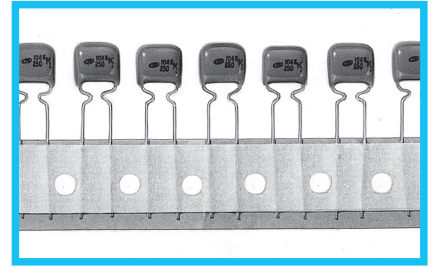


Taped Capacitors for Automatic Insertion Systems

Type numbering system



Code	Taping Style	Lead-to-lead distance (F)	Pitch of component (P)
A	A	5.0	12.7
L	L	5.0	15.0
M	M	5.0	25.4
E	E	7.5	15.0
R	R	7.5	30.0



*QXK-(ZH) Type numbering system

- the 12th digit = 3
- the 13th digit = T
- the 14th digit = E
- the 15th digit = T
- the 16th digit = Style Code

One example : QXK2J103KTP3ZHTE

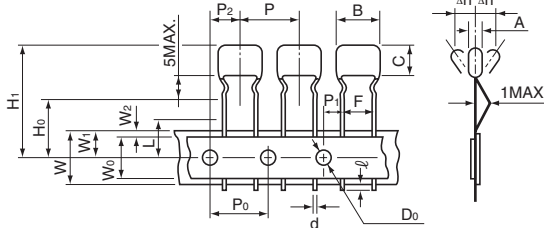
Dimensions

Item	Symbol	Dimensions (mm)					
		A	L	M	E	R	Tolerance
Pitch of component	P	12.7	15.0	25.4	15.0	30.0	± 1.0
Feed hole pitch	P ₀	12.7	15.0	25.4	15.0	30.0	± 0.3
Feed hole pitch	P' ₀	-	-	12.7	-	15.0	± 0.3
Distance between hole and lead wire	P ₁	3.85	5.0	3.85	3.75	3.75	± 0.7
Distance between hole and component	P ₂	6.35	7.5	6.35	7.5	7.5	± 1.3
Lead-to-lead distance	F	5.0	5.0	5.0	7.5	7.5	± 0.8
Tilt of component	Δh	0 ± 2.0					
Tape width	W	18 ± 0.3					
Hold-down tape width	W ₀	12.5 MIN.					
Slip out of hole	W ₁	9.0 ± 0.5					
Slip out of hold-down tape	W ₂	3.0 MAX.					
Lead-wire clinch height	H ₀	16.0 ± 0.5					
Length of cut lead	ℓ	2.0 MAX.					
Feed hole diameter	D ₀	4.0 ± 0.2					
Total tape thickness	t	0.7 ± 0.2					
Cut length of rejected component	L	11.0 MAX.					
Upper side position	H ₁	H ₀ + 5 + C					

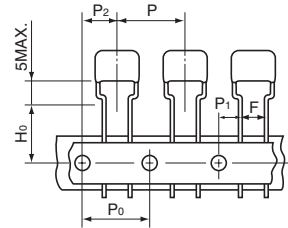
- Note
- 1) Measuring positions for P₁, F, and H₀ shall be at the lower part of lead wire clinch.
 - 2) Consecutive omissions due to rejected components shall be allowed up to 1 piece, provided that the first one after turn-up shall be with no taping and not be counted among the omission numbers.
 - 3) When connecting tapes, both of front and back sides shall be stuck with hold-down tape.
 - 4) At the start and end of taping, empty feeding shall be corresponding to more than 8, and less than 11 pieces.
 - 5) Marking shall be allowed at either side of components.

Taping specifications

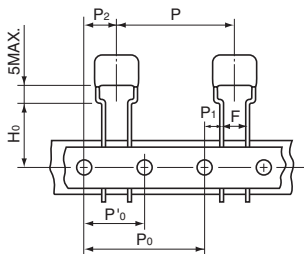
Style A (Code : A)



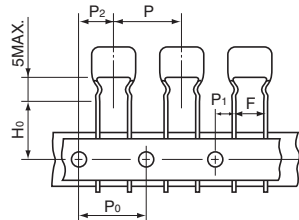
Style L (Code : L)



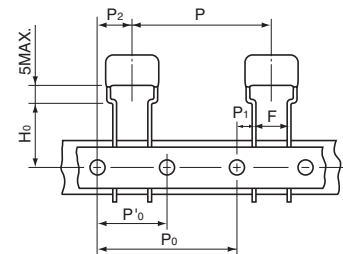
Style M (Code : M)



Style E (Code : E)



Style R (Code : R)

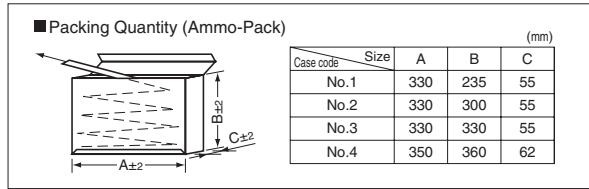


The order quantity must be in multiples of the base quantity.

Order quantity (Taping)

(μF) Cap.	series W.V. Item Code	QXK-(ZH)									QXK									QXL												
		250VDC			400VDC			630VDC			250VDC			400VDC			630VDC			125VAC			250VAC									
		Style	Quantity	Case Code	Style	Quantity	Case Code	Style	Quantity	Case Code	Style	Quantity	Case Code	Style	Quantity	Case Code	Style	Quantity	Case Code	Style	Quantity	Case Code	Style	Quantity	Case Code							
0.01	103							R	1000	3		A	1000	1		A	1000	1	E	1000	1				E	1000	1					
0.015	153								↓	↓						↓	↓										↓					
0.022	223				E	1000	2			500	1				E		2				2			E	1000	1					2	
0.033	333				↓	↓	↓			↓	↓																	↓				
0.047	473	L	1000	2	R	↓	3			↓	4										↓	4			2		↓			3		
0.068	683		↓	↓			500	1			↓	↓							R	500	3				↓	R	500	↓				
0.1	104		↓	↓				↓		400	↓					↓	↓								3			↓		4		
0.15	154	M	500	↓				4					↓	2	R	500	3							↓		↓			↓			
0.22	224			3								L	3										300	↓				4	↓		300	3
0.33	334				↓		400						↓			400	4								R	500						
0.47	474				4	↓	300	↓						M	500	2	↓	↓	↓								400					
0.68	684																										300	↓				
1.0	105		↓	↓																												
1.5	155		↓	↓									400	↓																		

(μF) Cap.	series W.V. Item Code	QXP														
		250VDC			400VDC			630VDC			800VDC					
		Style	Quantity	Case Code	Style	Quantity	Case Code	Style	Quantity	Case Code	Style	Quantity	Case Code			
0.01	103							R	1000	3		R	1000	3		
0.015	153								↓	↓			500	1		
0.022	223				R	1000	3			500	1			↓		
0.033	333													4		
0.047	473	R	1000	3			500	1						400	↓	
0.068	683		↓	↓			↓	↓						↓		
0.1	104		500	1			400	4			400			↓	300	↓
0.15	154		↓	↓						300	↓					
0.22	224		400	4				300								
0.33	334		↓	↓			↓	↓								
0.47	474		300	4												
0.68	684		↓	↓												

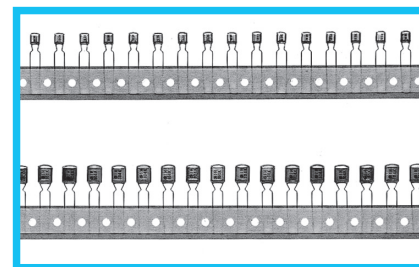
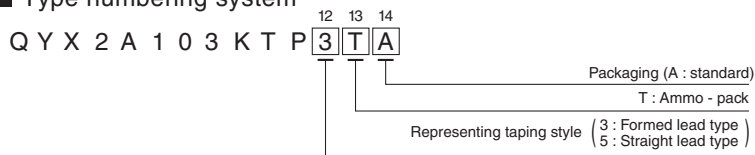


Order quantity (Bulk)

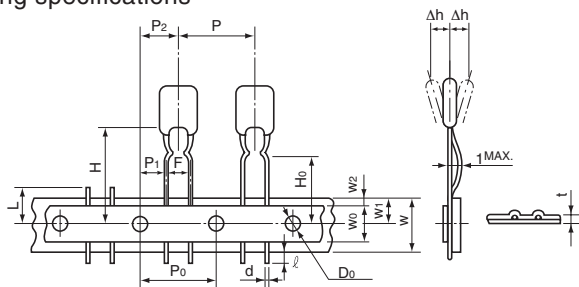
(μF) Cap.	series W.V. Code	QXK-(ZH)			QXK			QXP				QXT		QXL		QAK			QAP					
		250VDC	400VDC	630VDC	250VDC	400VDC	630VDC	250VDC	400VDC	630VDC	800VDC	400VDC	630VDC	125VAC	250VAC	250VDC	400VDC	630VDC	250VDC	400VDC	630VDC			
0.0068	682												1000											
0.01	103			1000	1000	1000	1000					1000	1000	1000		1000								
0.015	153																							
0.022	223		1000												1000									
0.033	333																							
0.047	473	1000						1000						800										
0.068	683													500										
0.1	104												800											
0.15	154			↓									800									1000		
0.22	224				800																	800	800	
0.33	334				600			↓											1000	500		800	600	
0.47	474		↓		500			800							800	1000	800	400	1000	700	500		500	
0.68	684			800				600	↓										600	300	↓	500	350	
1.0	105			600			800	500	800	400													1000	
1.5	155	↓	500				600	400	600	300									800	400	200	500	200	
2.2	225	800				↓	500	250	500										700	300	125	400	125	
3.3	335	600				800			350										500	200	100	300	100	
4.7	475					600														300	150		200	100
6.8	685					400																	150	
10.0	106					300																	100	

Taped Capacitors for Automatic Insertion Systems (QYX)

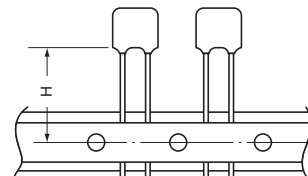
Type numbering system



Taping specifications



Formed lead type



Straight lead type

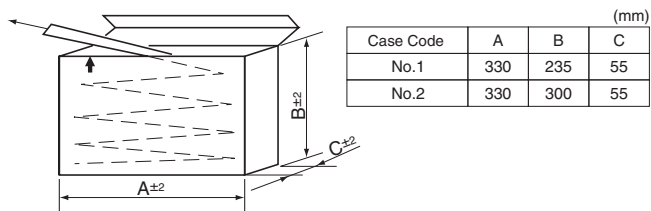
Dimensions

Item	Symbol	Dimensions (mm)	
		Dimensions	Dimensions
Pitch of component	P	12.7	± 1.0
Feed hole pitch	P ₀	12.7	± 0.3
Distance between hole and lead wire	P ₁	3.85	± 0.7
Distance between hole and component	P ₂	6.35	± 1.3
Lead-to-lead distance	F	5.0	+ 0.8 - 0.2
Tilt of component	Δh	0	± 2.0
Tape width	W	18.0	+ 1.0 - 0.5
Hold down tape width	W ₀	15.0	+ 0.5 - 2.5
Slip out of hole	W ₁	9.0	± 0.5

Item	Symbol	Dimensions (mm)	
		Dimensions	Tolerance
Slip out of hold down tape	W ₂	2.5	MAX.
Height of component from tape center	* H	20.0 (16.0)	± 0.75
Lead-wire clinch height	H ₀	16.0	± 0.5
Length of cut lead	ℓ	2.0	MAX.
Feed hole diameter	D ₀	4.0	± 0.2
Total tape thickness	t	0.7	± 0.2
Cut length of rejected component	L	11.0	MAX.
Lead wire diameter	φd	0.5	± 0.05

* Straight lead type is available only for 5mm lead pitch on "QYX" series, and "H" dimension will be 16mm.

Packaging Quantity (Ammo-pack)



Series	Cap.range (μF)	Q'ty/Case (pcs.)	Case code
QYX (50V)	0.001 to 0.0015	2,000	1
	0.0022 to 0.022	2,000	2
	0.033 to 0.068	1,000	1
	0.1 to 0.22	1,000	2
QYX (100V)	0.001 to 0.0068	2,000	1
	0.01 to 0.022	2,000	2
	0.033 to 0.068	1,000	1
	0.1	1,000	2

The order quantity must be in multiples of the base quantity.