

Ceramic Y Capacitor



MCH/MCY Series

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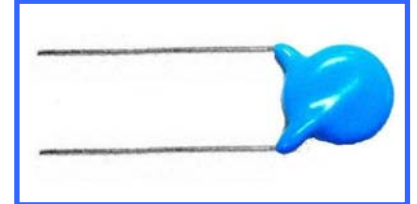
FEATURES

- Antenna coupling and line bypass Capacitor
- Across-the-line capacitor

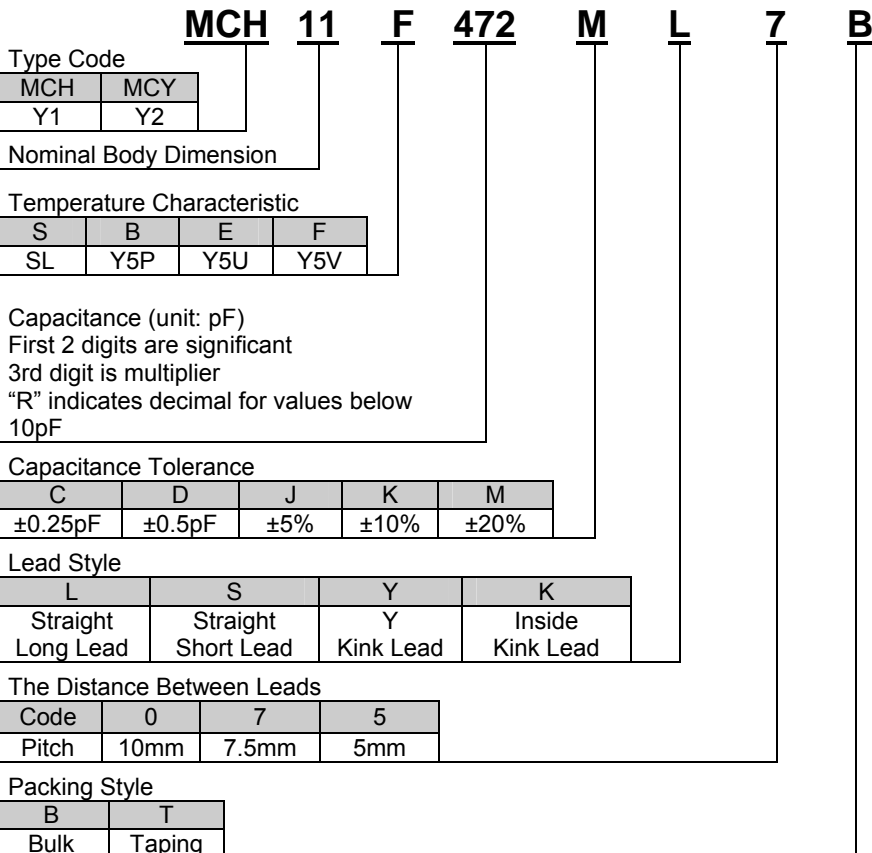
UL E197475
 VDE MCH: 40032986
 MCY: 40032990

SPECIFICATION

Temperature Characteristic		SL、Y5P、Y5U、Y5V	
Rated Capacitance		2pF to 10000pF	
Rated Voltage	MCH	X1	AC 760V; AC 440V; AC 400V
		Y1	AC 500V; AC 400V; AC 300V; AC 250V
	MCY	X1	AC 400V
		Y2	AC 300V; AC 250V
Capacitance Tolerance		C±0.25pF、D±0.5pF、J±5%、K±10%、M±20%	
Climate Category		40/125/21	
Passive flammability Category		C	



PART NUMBERING SYSTEM



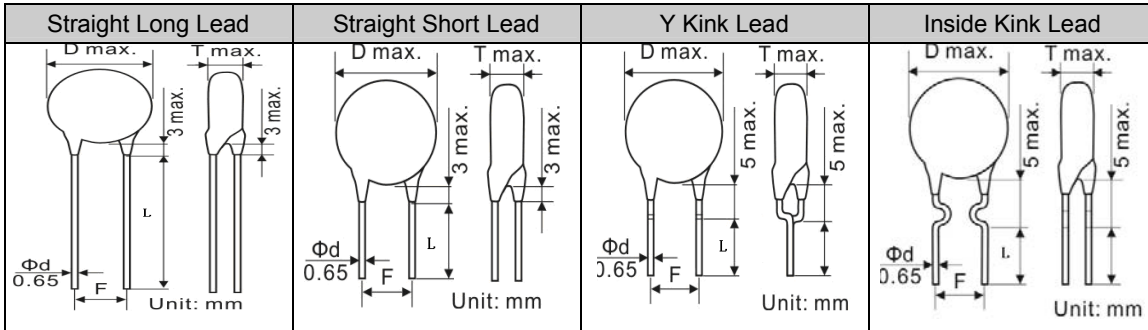
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MECHANICAL INSTRUCTION DRAWING AND DIMENSIONS



Encapsulation: epoxy resin
Disc size and lead style: (unit:mm)

STANDARD LIST AND DIMENSIONS

Type	T.C.	Part no.	Cap.(pF)	Tol.	Diameter	Thickness
MCH (Y1)	SL	MCH08S2R0□□□□	2	C:±0.25pF D:±0.5pF	8max	8max
		MCH08S3R0□□□□	3		8max	
		MCH08S5R0□□□□	5		8max	
		MCH08S6R0□□□□	6		8max	
		MCH08S8R0□□□□	8		8max	
		MCH08S100□□□□	10		J:±5% K:±10%	
		MCH09S150□□□□	15	9max		
		MCH09S220□□□□	22	9max		
		MCH09S330□□□□	33	9max		
		MCH11S470□□□□	47	11max		
		MCH11S680□□□□	68	11max		
		Y5P	MCH08B101□□□□	100	K:±10% M:±20%	
	MCH09B151□□□□		150	9max		
	MCH10B221□□□□		220	10max		
	MCH10B331□□□□		330	10max		
	MCH11B391□□□□		390	11max		
	MCH11B471□□□□		470	11max		
	MCH12B561□□□□		560	12max		
	MCH12B681□□□□		680	12max		
	MCH13B821□□□□		820	13max		
	MCH13B102□□□□		1000	13max		
	Y5U	MCH08E471□□□□	470	M:±20%	8max	
		MCH08E561□□□□	560		8max	
		MCH09E681□□□□	680		9max	
		MCH10E821□□□□	820		10max	
		MCH10E102□□□□	1000		10max	
		MCH11E152□□□□	1500		11max	
		MCH12E202□□□□	2000		12max	
		MCH12E222□□□□	2200		12max	
		MCH13E272□□□□	2700		13max	
		MCH13E302□□□□	3000		13max	
	MCH14E332□□□□	3300	14max			
MCH15E392□□□□	3900	15max				
MCH17E472□□□□	4700	17max				

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STANDARD LIST AND DIMENSIONS (Cont.)

Type	T.C.	Part no.	Cap.(pF)	Tol.	Diameter	Thickness				
MCH (Y1)	Y5U	MCH19E562□□□□	5600	M:±20%	19max	8max				
		MCH22E682□□□□	6800		22max					
		MCH24E822□□□□	8200		24max					
		MCH25E103□□□□	10000		25max					
	Y5V	MCH09F102□□□□	1000	M:±20%	9max					
		MCH11F152□□□□	1500		11max					
		MCH12F222□□□□	2200		12max					
		MCH13F332□□□□	3300		13max					
		MCH13F392□□□□	3900		13max					
		MCH14F472□□□□	4700		14max					
		MCH16F562□□□□	5600		16max					
		MCH19F682□□□□	6800		19max					
		MCH21F822□□□□	8200		21max					
		MCH24F103□□□□	10000		24max					
		MCY (Y2)	Y5P		MCY07B101□□□□		100	K:±10% M:±20%	7max	7max
					MCY07B151□□□□		150		7max	
MCY08B221□□□□	220			8max						
MCY09B331□□□□	330			9max						
MCY09B391□□□□	390			9max						
MCY09B471□□□□	470			9max						
MCY10B561□□□□	560			10max						
MCY11B681□□□□	680			11max						
MCY12B821□□□□	820			12max						
MCY14B102□□□□	1000			14max						
Y5U	MCY06E471□□□□		470	M:±20%	6.5max					
	MCY07E561□□□□		560		7.5max					
	MCY07E561□□□□		680		7.5max					
	MCY08E821□□□□		820		8max					
	MCY08E102□□□□		1000		8max					
	MCY09E152□□□□		1500		9max					
	MCY09E182□□□□		1800		9max					
	MCY11E202□□□□		2000		11max					
	MCY12E222□□□□		2200		12max					
	MCY13E272□□□□		2700		13max					
	MCY15E302□□□□		3000		15max					
	MCY15E332□□□□		3300		15max					
	MCY16E392□□□□		3900		16max					
	MCY17E472□□□□		4700		17max					
	MCY18E562□□□□		5600		18max					
	MCY19E682□□□□		6800		19max					
	MCY22E822□□□□		8200		22max					
	MCY24E103□□□□		10000		24max					
Y5V	MCY09F102□□□□		1000	M:±20%	9max					
	MCY11F152□□□□		1500		11max					
	MCY12F222□□□□		2200		12max					

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STANDARD LIST AND DIMENSIONS (Cont.)

Type	T.C.	Part no.	Cap.(pF)	Tol.	Diameter	Thickness
MCY (Y2)	Y5V	MCY13F332□□□□	3300	M:±20%	13max	7max
		MCY15F392□□□□	3900		15max	
		MCY16F472□□□□	4700		16max	
		MCY17F562□□□□	5600		17max	
		MCY18F682□□□□	6800		18max	
		MCY21F822□□□□	8200		21max	
		MCY23F103□□□□	10000		23max	

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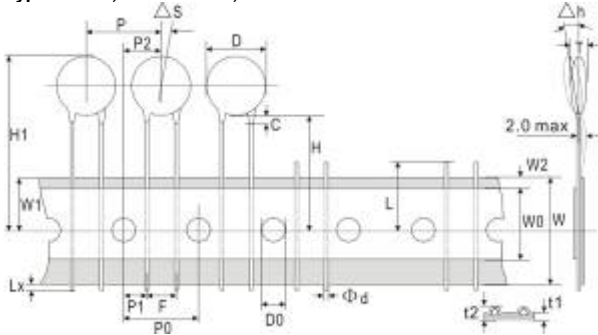


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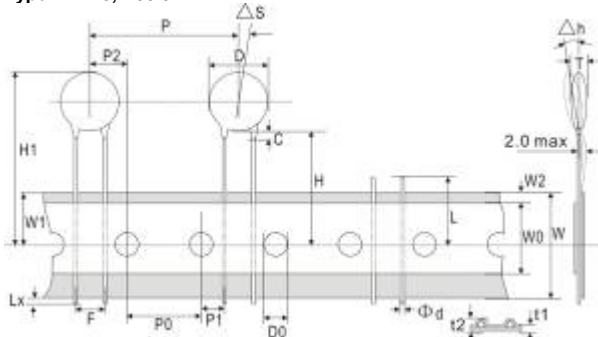
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Taping Specifications

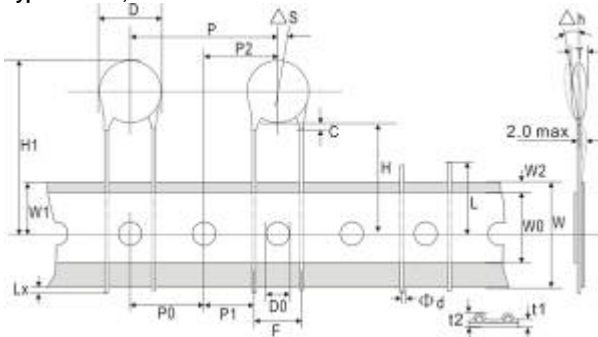
Type 1: F5.0, P12.7 & F7.5, P15.0



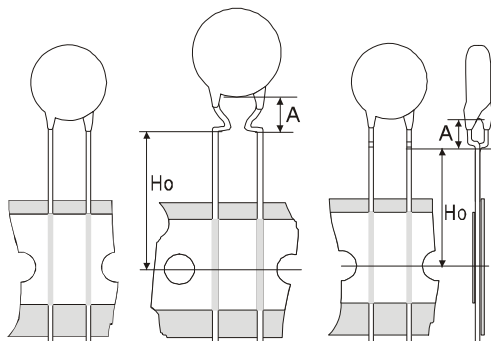
Type 2: F7.5, P30.0



Type 3: F10.0, P25.4



Lead Variation:



Straight type Inside Kink type Vertical Kink type

Item	Code	Taping Specification	
		Type 1	
Body Diameter	D		
Body Thickness	T		
Lead Diameter	Φd	0.65±1.0	0.65±1.0
Pitch of Sprocket Hole	P0	12.7±0.3	15.0±0.3
Pitch of Component	P	12.7±1.0	15.0±1.0
Lead Length from Hole Center Lead	P1	3.85±0.7	3.75±1.0
Lead Length from Hole Center Lead to component Center	P2	6.35±1.3	7.5±1.5
Lead Spacing	F	5.0+0.8/-0.2	7.5±1.0
Deviation Along Tape, Left or Right	ΔS	0±1.0	0±1.0
Deviation Across Tape	Δh	0±2.0	0±2.0
Carrier Tape Width	W	18.0+1.0/-0.5	18.0+1.0/-0.5
Hold Down Tape Width	W0	5.0 min	5.0 min
Position of Sprocket Hole	W1	9.0±0.5	9.0±0.5
Hold Down Tape Position	W2	3.0 max	3.0 max
Height of Component from Hole Center	H	20.0±1.5	20.0±1.5
Lead-Wire Clinch Height	H0	16.0±0.5	16.0±0.5
Component Height	H1	32.25 max	/
Length of Snipped Lead	L	11.0 max	11.0 max
Diameter of Sprocket Hole	D0	4.0±0.2	4.0±0.2
Total Tape Thickness	t1	0.7±0.2	0.7±0.2
Total Thickness, Tape and Lead Wire	t2	1.5 max	1.7 max
Length of snipped Lead	Lx	1.0 max	1.0 max
Coating on lead	C	3.0 max	3.0 max
Height of Kink	A	5.0 max	5.0 max

Item	Code	Taping Specification	
		Type 2	Type 3
Body Diameter	D		
Body Thickness	T		
Lead Diameter	Φd	0.65±1.0	0.65±1.0
Pitch of Sprocket Hole	P0	15.0±0.3	12.7±0.3
Pitch of Component	P	30.0±1.0	25.4±1.0
Lead Length from Hole Center Lead	P1	3.75±1.0	7.7±1.0
Lead Length from Hole Center Lead to component Center	P2	7.5±1.5	12.7±1.5
Lead Spacing	F	7.5±1.0	10.0±1.0
Deviation Along Tape, Left or Right	ΔS	0±1.0	0±1.0
Deviation Across Tape	Δh	0±2.0	0±2.0
Carrier Tape Width	W	18.0+1.0/-0.5	18.0+1.0/-0.5
Hold Down Tape Width	W0	5.0 min	9.0 min
Position of Sprocket Hole	W1	9.0±0.5	9.0±0.5
Hold Down Tape Position	W2	3.0 max	3.0 max
Height of Component from Hole Center	H0	20.0±1.5	20.0±1.5
Lead-Wire Clinch Height	H0	16.0±0.5	16.0±0.5
Component Height	H1	/	/
Length of Snipped Lead	L	11.0 max	11.0 max
Diameter of Sprocket Hole	D0	4.0±0.2	4.0±0.2
Total Tape Thickness	t1	0.7±0.2	0.7±0.2
Total Thickness, Tape and Lead Wire	t2	1.7 max	1.7 max
Length of snipped Lead	Lx	1.0 max	1.0 max
Coating on lead	C	3.0 max	3.0 max
Height of Kink	A	5.0 max	5.0 max