

**CAPACITANCE TOLERANCES**

NPO: F =  $\pm 1\%$ , J =  $\pm 5\%$ , K =  $\pm 10\%$ .  
 X7R: J =  $\pm 5\%$ , K =  $\pm 10\%$ , M =  $\pm 20\%$ .  
 Z5U: M =  $\pm 20\%$ , Z =  $+80\%$ ,  $-20\%$ .  
 Y5V: M =  $\pm 20\%$ , Z =  $+80\%$ ,  $-20\%$ .

Case		01	02	03
EIA/TC	WVDC	Capacitance Range (pF, EIA)		
NPO	100	100 - 151		
	50	100 - 332	472 - 103	
X7R	100	221 - 103		
	50	221 - 104	154 - 224	334 - 105
Z5U	50	103 - 334	474	684 - 105
Y5V	50		105	
	16	105 - 335		

**PART NUMBERING**

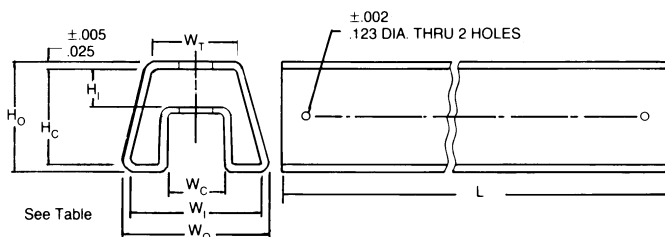
Part Number Example: **CMD-050/104KX10TF**

CMD	-	050	/	104	K	X	10	T	F
Type		Rated DC Voltage		Capacitance Code (pF)*	Tolerance Code	Dielectric Material**	Case Size	Package Code***	RoHs Compliant

\* Capacitance Code: First two digits represent significant figures, third digit represents multiplier (number of zeros).  
 \*\* Dielectric Material: N = NPO, X = X7R, Z = Z5U.  
 \*\*\* Package Code: TR = Tape & Reel, TA = Tape & Ammo, B = Bulk.

Case	Length (L)	Height (H <sub>1</sub> )	Height (H <sub>2</sub> )	Thickness
01	0.260 $\pm$ 0.020 (6.60)	0.135 maximum (3.43)	0.165 maximum (4.19)	0.100 maximum (2.54)
02	0.260 $\pm$ 0.020 (6.60)	0.165 maximum (4.19)	0.200 maximum (5.08)	0.100 maximum (2.54)
03	0.260 $\pm$ 0.020 (6.60)	0.290 maximum (7.37)	0.320 maximum (8.13)	0.100 maximum (2.54)

Standard Packaging: 200 pieces per slide pack.



	*01	02	03
(Ho) Overall Height	0.400 ref.	0.430 ref.	0.545 ref.
(Hc) Channel Height	0.141 $\pm$ 0.006	0.171 $\pm$ 0.006	0.295 $\pm$ 0.010
(H1) Inside Height	0.350	0.380	0.495
(Wo) Overall Width	0.540 ref.	0.540 ref.	0.600 ref.
(W1) Inside Width	0.490	0.490	0.550
(Wc) Channel Width	0.210	0.210	0.170
(WT) Top Width	0.350	0.310	0.300
(L) Length	20.073 $\pm$ 0.06	20.073 $\pm$ 0.06	20.073 $\pm$ 0.06