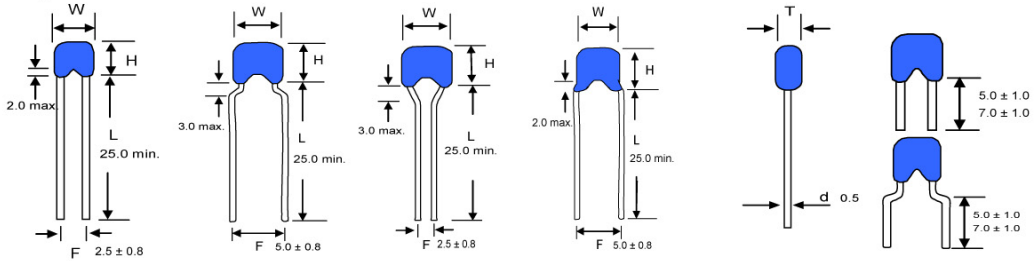




# MULTILAYER CERAMIC CAPACITORS

## 1. Lead Style:



## 2. Capacitance Range and Dimension:

CAPACITANCE RANGE				DIMENSIONS (mm)							
TYPE	Rated Voltage DC	NPO	X7R	Z5U/Y5V	W max.	H max.	L min.	T max.	F ± 0.8	d ± 0.05	
M063	25V, 50V, 100V	010 ~ 103	101 ~ 105	102 ~ 105	4.0	4.0	25.0	2.5	2.5	0.5	
M065	25V, 50V, 100V	010 ~ 103	101 ~ 105	102 ~ 105	4.0	4.0	25.0	2.5	5.0	0.5	
M123	25V, 50V, 100V	010 ~ 103	101 ~ 105	102 ~ 105	5.5	5.0	25.0	3.0	2.5	0.5	
M125	25V, 50V, 100V	010 ~ 103	101 ~ 105	102 ~ 105	5.5	5.0	25.0	3.0	5.0	0.5	

## 3. Electrical Specifications:

ITEM	NPO (CO)	X7R	Z5U/Y5V
1. OPERATING TEMPERATURE RANGE	-55° ~ +125°C	-55° ~ +125°C	+10° ~ +85°C (Z5) -25° ~ +85°C (Y5)
2. TEMPERATURE COEFFICIENT	0 ± 30 ppm/°C (G) 0 ± 60 ppm/°C (H)	±15% ΔC Max.	+22 -56% ΔC Max. (U) +30 -80% ΔC Max. (V)
3. DISSIPATION FACTOR (OR Q VALUE)	Q > 1000 (C ≥ 30pf) Q > 400+20 C (C < 30pf)	2.5% or less	5% or less (or < 2.5% @ 0.1 Vrms)
4. TEST FREQUENCY	1MHz ± 10% 1 ± 0.2 Vrms, 25°C	1KHz ± 10% 1 ± 0.2 Vrms, 25°C	1KHz ± 10% 1 ± 0.2 Vrms, 25°C
5. INSULATION RESISTANCE	More than either 10,000M Ω or 500M Ω × 1 / C value in μF Whichever value is smaller @25°C		
6. RATED VOLTAGE	25V, 50V, 100VDC	25V, 50V, 100VDC	25V, 50V, 100VDC
7. WITHSTANDING VOLTAGE	250% on Rated Voltage (1~5 Sec)	250% on Rated Voltage (1~5 Sec)	250% on Rated Voltage (1~5 Sec)
8. CAPACITANCE TOLERANCE	J.K.	K.M.	M.Z.
TYPICAL TEMPERATURE CHARACTERISTIC			

EVER GRACE ELECTRONIC INDUSTRIALS CO., LTD.

永嘉電子工業股份有限公司