

# Leaded MLCC for General Purpose Data Sheet

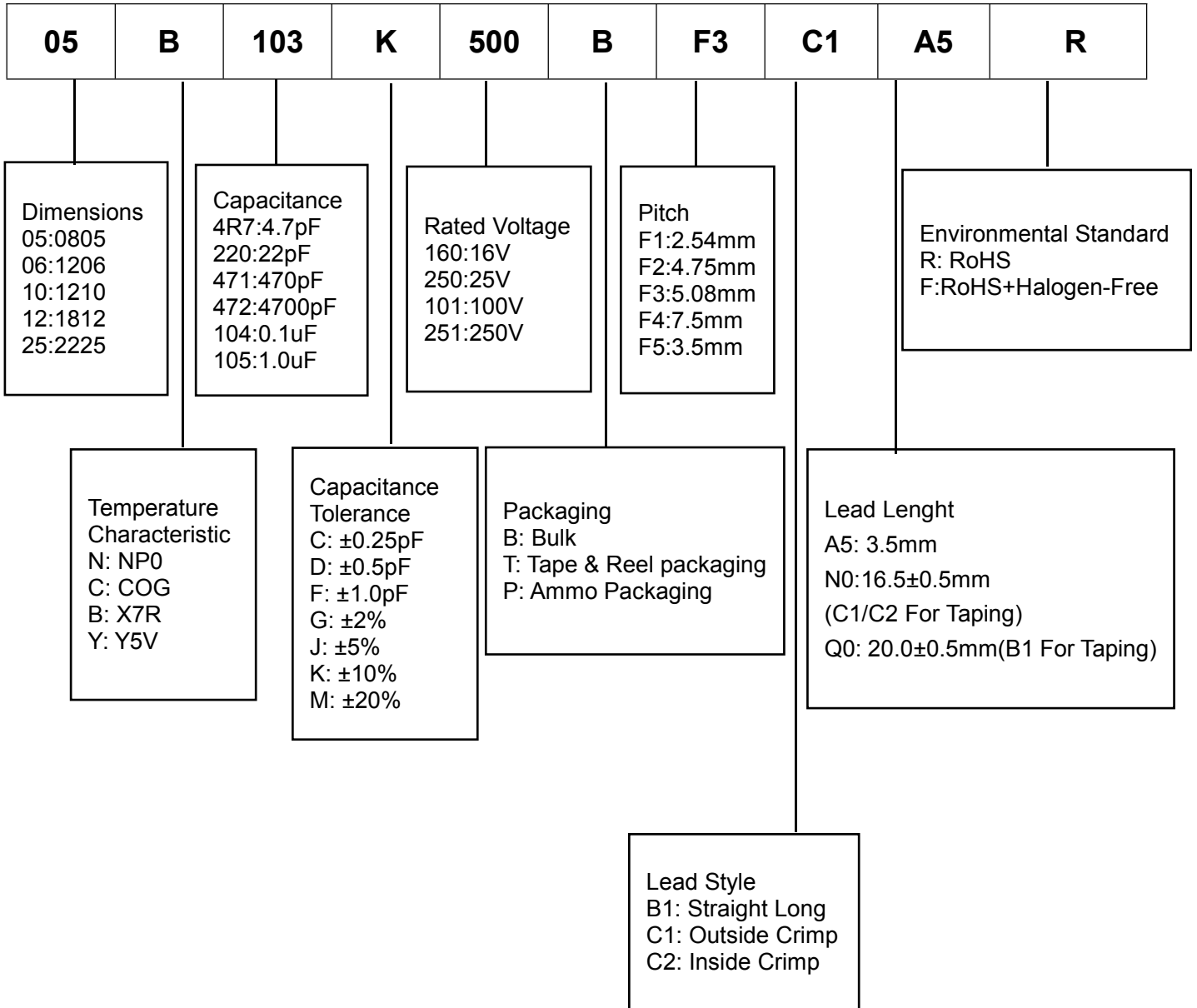
## Feature

- Small size and large capacitance
- Low ESR characteristics for high frequency
- Meet LF (Lead Free) and HF (Halogen Free)
- Epoxy resin coating

## Applications

- General electronic equipment

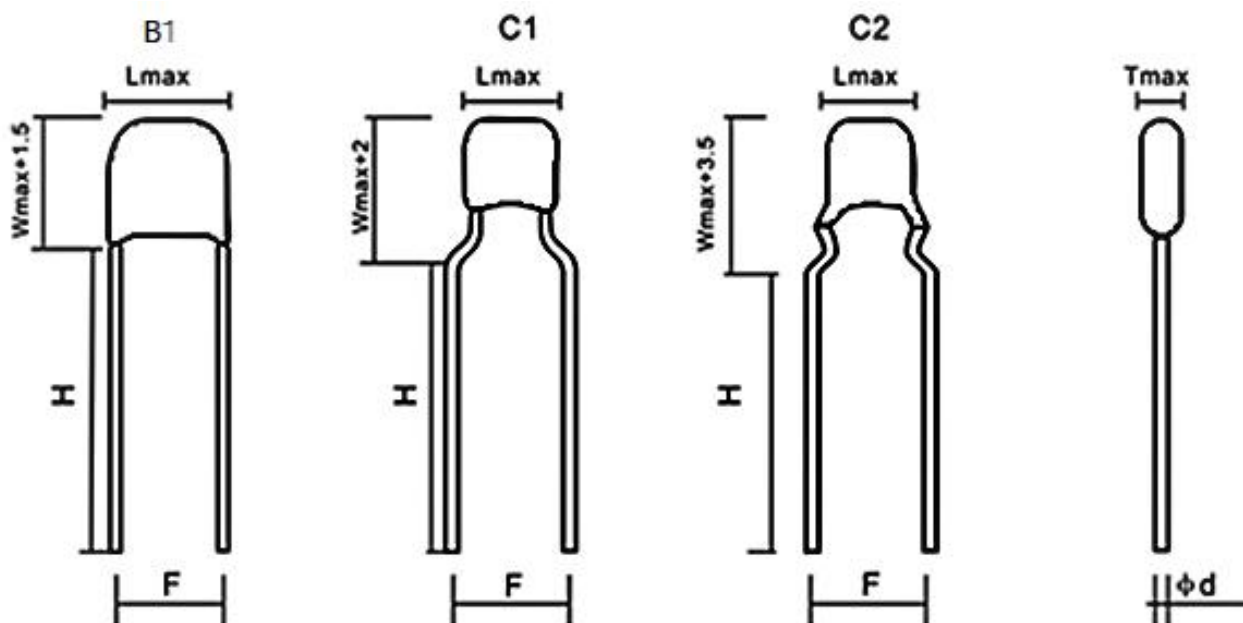
## Part Number Code



## Specifications

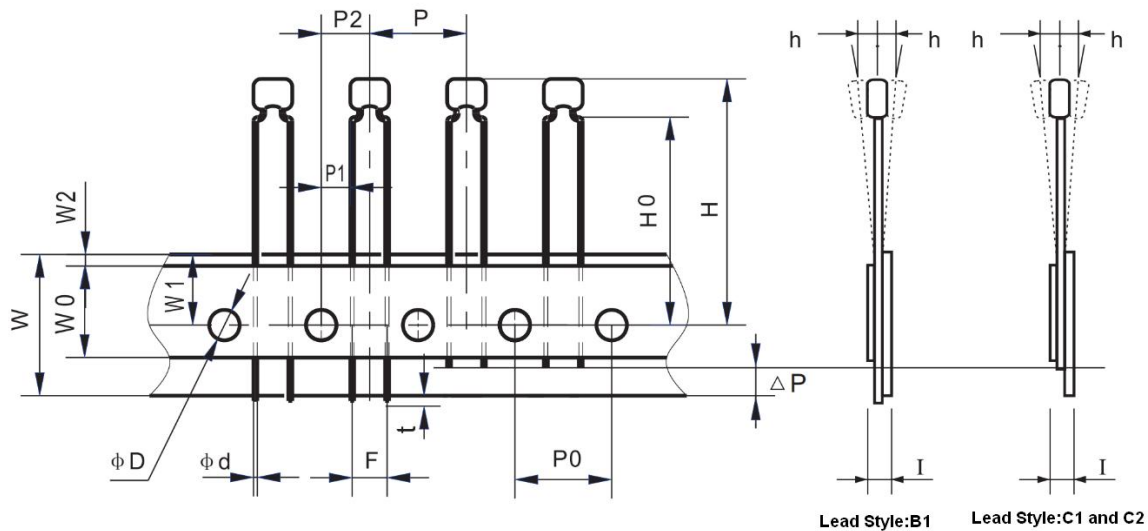
Reference Standard	GB/T 5966
Operating Temperature Range	-55~125℃
Capacitance(C) and Dissipation Factor(tg δ)	Class 1: C≤1000pF, 1MHZ±10%, 1.0V C>1000pF, 1KHZ±10%, 1.0V CR≥50PF,DF≤0.15% CR<50PF,DF≤0.15% [(150/ CR)+7] ×10 <sup>-4</sup> Class 2: 1KHZ±10%, 1.0V(B)/0.5V(Y) B: DF ≤3.5% Y: DF≤7.5% ( CR≤0.1uF) DF≤10.0% (1uF>CR>0.1uF ) DF≤15% ( CR≥1uF)
Rated Voltage	25V、50V、100V、250V
Withstand Voltage	Class1 300% Withstand Voltage Class2 250% Withstand Voltage The charge/discharge current is less than 50mA
Insulation Resistance	Rated Voltage, 60±5sec Class1: C≤10nF,IR≥10000MΩ C>10nF,IR≥100MΩ.uF Class2: C≤25nF,IR≥4000MΩ C>25nF,IR≥100MΩ.uF
Temperature Characteristic	COG(NP0)、X7R、Y5V

## Dimension、Voltage and Capacitance



Dimension	Dimensions (Unit: mm)						Rated voltage	Available Capacitance Range		
	F ±0.5	H ±1	L max	W max	T max	Φd ±0.05		N	B	Y
								COG(NPO)	X7R	Y5V
0805	2.54	10	4.2	3.8	3.8	0.45	25V	0R5-272	101-105	102-125
	5.08	5.0/								
	5.08	10.0								
1206	3.50	10	5.5	4.5	3.8	0.45	25V	0R5-562	101-225	102-125
	5.08						50V	0R5-472	101-105	102-105
							100V	0R5-332	101-154	---
1210/1209	3.50	10	5.5	5.5	3.8	0.45	25V	100-103	471-105	472-155
	5.08						50V	100-103	471-105	472-205
							100V	5R0-103	101-105	---
1812	4.57	10	8.5	6.5	3.8	0.45	25V	100-153	471-335	103-335
							50V	100-103	471-225	103-225
							100V	5R0-103	101-105	---
2225	5.50	10	10.5	9.5	4.2	0.45	25V	100-473	102-475	103-475
							50V	100-273	102-335	103-335
							100V	5R0-273	101-105	---

### Taping And Dimensions (mm)



Note: P1=3.85mm for F=5.08mm; P1=5.1mm for F=2.54mm

Code	P	P0	P1	P2	Φd	Δh	W	W0	W1	W2	H	H0	I	ΦD0	t
Dim	12.7	12.7	3.85	6.35	0.5	0	18.5	8	9	1.5	32.25	15-20	1.42	4.0	0.7
			5.1					10							
TOL	± 1.0	± 0.2	± 0.7	± 1.3	± 0.1	± 1.0	± 1.0	± 1.0	± 0.5	± 1.5	Max	± 0.5	Max	± 0.2	Max

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