

Leaded MLCC for General Purpose Data Sheet

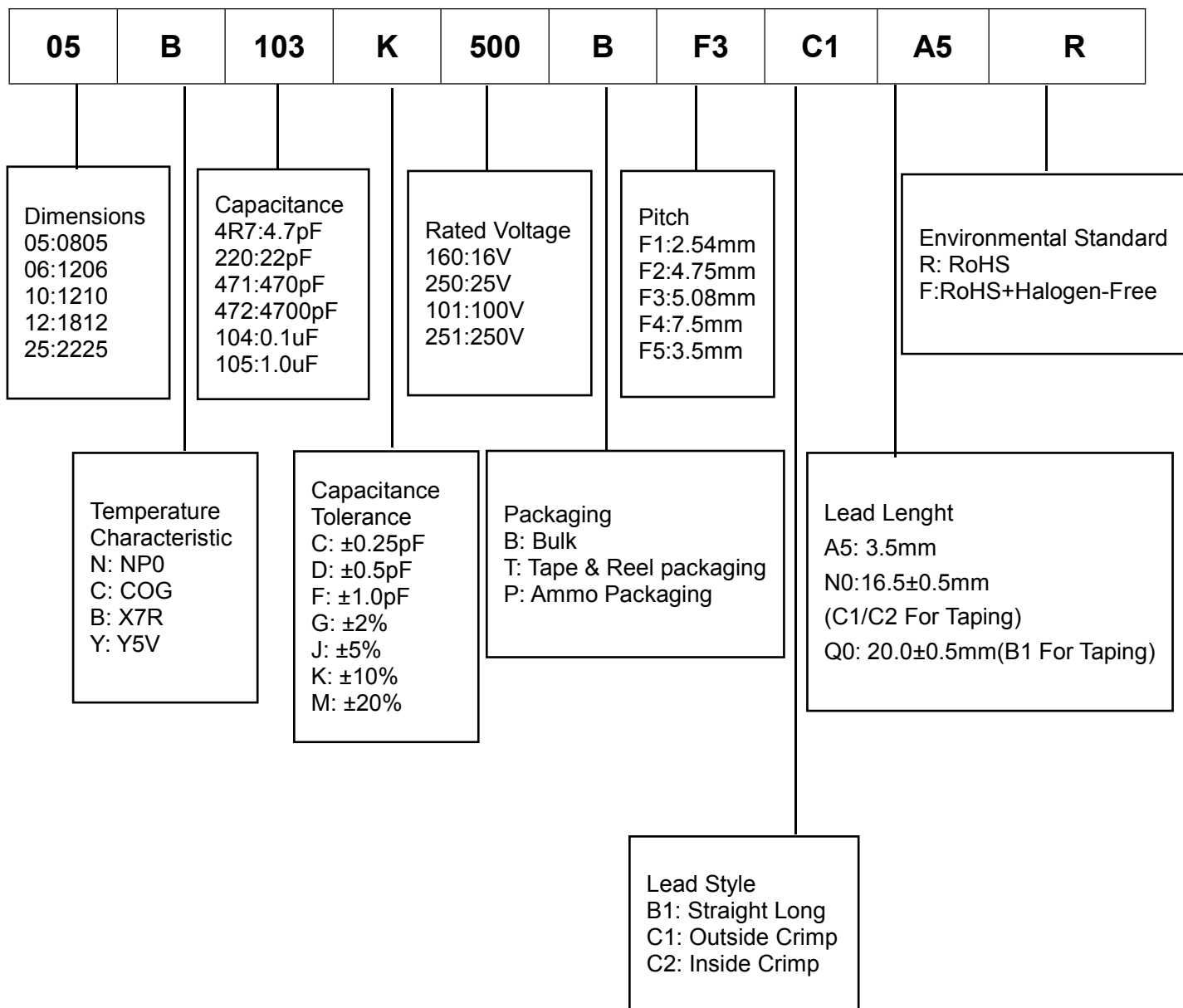
Feature

- 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

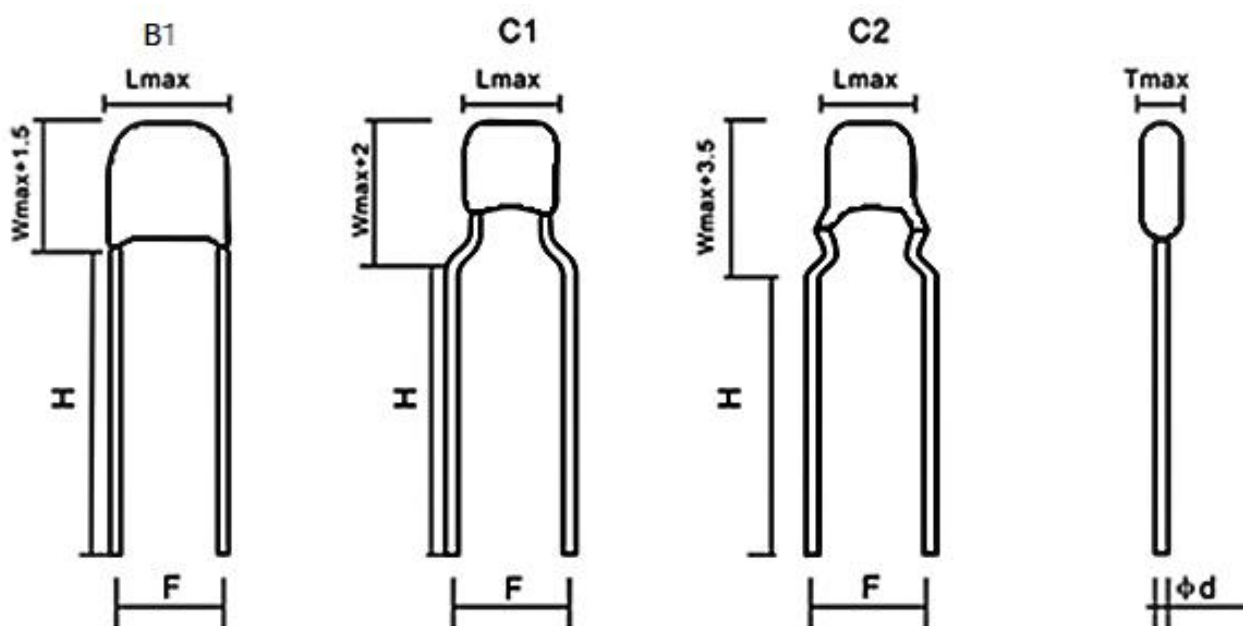
Part Number Code



Specifications

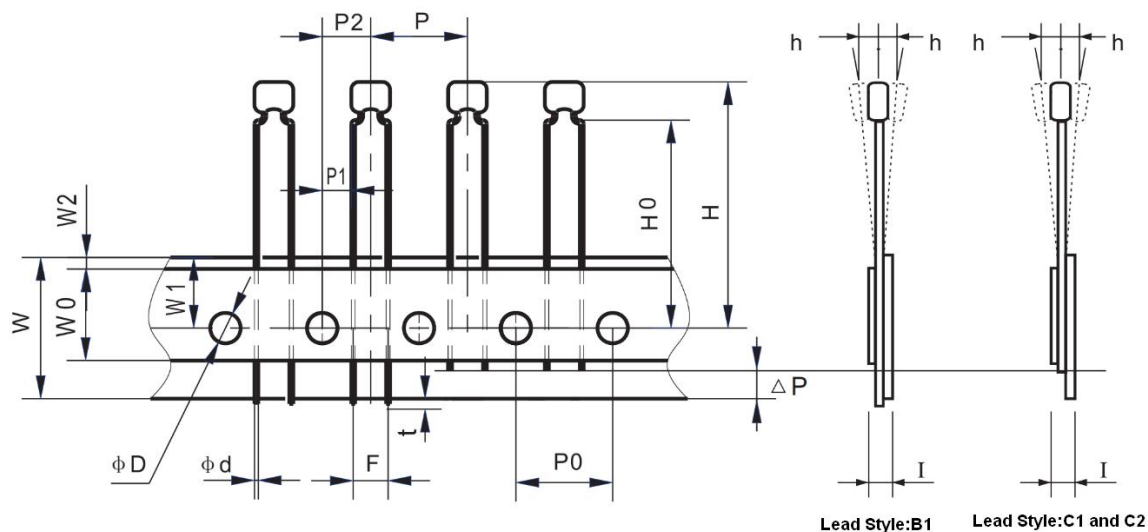
Reference Standard	GB/T 5966
Operating Temperature Range	-55~125℃
Capacitance(C) and Dissipation Factor(tg δ)	Class 1: $C \leq 1000\text{pF}$, $1\text{MHz} \pm 10\%$, 1.0V $C > 1000\text{pF}$, $1\text{KHz} \pm 10\%$, 1.0V $CR \geq 50\text{PF}$, $DF \leq 0.15\%$ $CR < 50\text{PF}$, $DF \leq 0.15\% \left[\left(\frac{150}{CR} \right) + 7 \right] \times 10^{-4}$ Class 2: $1\text{KHz} \pm 10\%$, $1.0\text{V(B)}/0.5\text{V(Y)}$ B: $DF \leq 3.5\%$ Y: $DF \leq 7.5\%$ ($CR \leq 0.1\mu\text{F}$) $DF \leq 10.0\%$ ($1\mu\text{F} > CR > 0.1\mu\text{F}$) $DF \leq 15\%$ ($CR \geq 1\mu\text{F}$)
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, $60 \pm 5\text{sec}$ Class1: $C \leq 10\text{nF}$, $IR \geq 10000\text{M}\Omega$ $C > 10\text{nF}$, $IR \geq 100\text{M}\Omega \cdot \mu\text{F}$ Class2: $C \leq 25\text{nF}$, $IR \geq 4000\text{M}\Omega$ $C > 25\text{nF}$, $IR \geq 100\text{M}\Omega \cdot \mu\text{F}$
Temperature Characteristic	COG(NP0)、X7R、Y5V

Dimension、Voltage and Capacitance



Dimension	Dimensions (Unit: mm)						Rated voltage	Available Capacitance Range		
	F	H	L	W	T	Φd		N	B	Y
	±0.5	±1	max	max	max	±0.05		COG(NPO)	X7R	Y5V
0805	2.54	10	4.2	3.8	3.8	0.45	25V 50V 100V	0R5-272 0R5-222 05R-102	101-105 101-105 101-104	102-125 102-105 ---
	5.08	5.0/								
	5.08	10.0 5								
1206	3.50 5.08	10	5.5	4.5	3.8	0.45 0.50	25V	0R5-562	101-225	102-125
							50V	0R5-472	101-105	102-105
							100V	0R5-332	101-154	---
1210/1209	3.50 5.08	10	5.5	5.5	3.8	0.45 0.50	25V	100-103	471-105	472-155
							50V	100-103	471-105	472-205
							100V	5R0-103	101-105	---
1812	4.57	10	8.5	6.5	3.8	0.45 0.50	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 0.50	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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