

AVATC MLCC Part Numbering System

Part Numbering System

AAG

①

C

②

18

③

E

④

X7R

⑤

104

⑥

K

⑦

G

⑧

N

⑨

N

⑩

① Product Series

Series Code	Application
AAG	Automotive
AGG	General Purpose

② External Terminal

Code	External Terminal
C	Cu
S	Soft Termination

③ Product Size

Code	mm/inch
02	0402/01005
03	0603/0201
15	1005/0402
18	1608/0603
22	2012/0805
36	3216/1206
35	3225/1210

④ Thickness

Code	Thickness
A	0.20
B	0.30
C	0.50
D	0.60
E	0.80
F	0.85
G	1.15
H	1.25
I	1.30
J	1.60
K	2.00
L	2.30
M	2.50

⑤ Temperature Characteristics

Code [EIA]	Temp. Range	Cap. Tol. (%)
X5R	-55 to 85°C	±15
X6R	-55 to 105°C	±15
X7R	-55 to 125°C	±15
X7S	-55 to 125°C	±22

⑥ Capacitance

Code	Capacitance
101	100pF
102	1nF
103	10nF
104	100nF
105	1µF
106	10µF

Ex) 103 = 10,000pF = 10nF = 0.01µF

⑦ Capacitance Tolerance

Code	Cap Tol. (%)
F	±1
G	±2
R	±2.5
J	±5
K	±10
M	±20

⑧ Rated Voltage

Code	Voltage (V)
A	4
B	6.3
C	10
D	16
E	25
F	35
G	50

⑨ Packaging Method

Code	Voltage (V)
B	Bulk
N	Φ178mm Reel Taping
L	Φ330mm Reel Taping

⑩ AVATEC Internal Code