

02

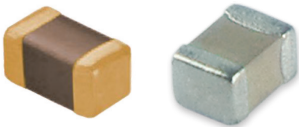
MW
Broadband
MLCC

Type: MW

MW
Broadband MLCC

1 Features

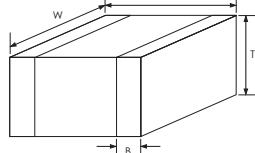
Ultra-low insert loss, Ultra broadband, compatible with SMT and wire bonding process.



2 Applications

DC Blocking in Micro-wave/Millimeter Wave Circuits, high-speed Digital Circuits and high-speed Optical Modules.

3 How to order

MW	0201	X6S	0J	104	M	N	3	C
Type	Case size Code	TCC	Rated V.	Normal Capacitance	Capacitance Tolerance	Termination Type	Thickness Code	Packing
Table 1	Table 2	Table 3	Table 4	Table 5	Table 6	Table 7	Table 2	Table 8
Table 1 Type		Table 2 Case size code (mm)						
MW	Broadband MLCC	Drawing		Case size code	0201	0402		
				Thickness code	3	B		
				L	0.60 ± 0.05	1.00 ± 0.05		
				W	0.30 ± 0.05	0.50 ± 0.05		
				T	0.30 ± 0.05	0.50 ± 0.05		
				B	0.20 ± 0.05	0.30 ± 0.10		
Table 3 TCC			Table 4 Rated Voltage					
Dielectric code	Temperature Characteristics	Operating Temperature	0J	6.3V	1A	10V	1C	16V
X6S	± 22%	-55 °C ~105 °C						
X7S	± 22%	-55 °C ~125 °C						
Table 5 Nominal Capacitance								
EIA Capacitance code in pF.1st two digit are significant figures of capacitance; 3rd digit denotes number of Zeros; R=decimal point; For examples: 104=100,000pF (100nF) .								
Table 6 Capacitance tolerance				Table 7 Termination Type				
K		± 10%	D	metal foundation - Nickel - Gold				
M		± 20%						
X		≧Nominal Capacitance	N	metal foundation - Nickel - Tin				
Table 8 Packing								
B- Bulk with bag				R- Reel				

4

Capacitance Value Table

Case size code	Rated DC Voltage(V)	Nominal Capacitance /nF	Cap. Tolerance
0201	6.3	100	M
0201	10	47	X
0402	16	100	K

5

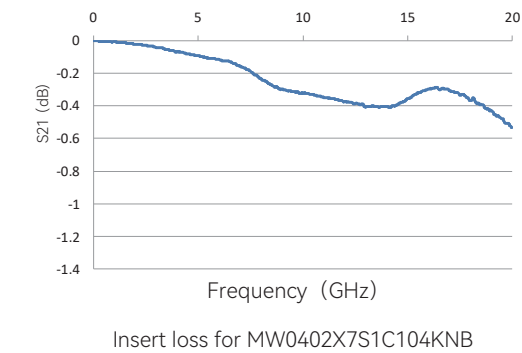
Electrical Specifications&Test Conditions

Item	Test Conditions (25°C ±2°C)	Electrical Specifications
Capacitance		Capacitance is up to requirements
Dissipation Factor tanδ	Test frequency: 1MHz±10% Test voltage: 1.0Vrms±0.2Vrms	≤ 5.0%
Insulation Resistance Ri	Test voltage: Rated Voltage UR Endurance: 2min±5s	Ri ≥ 10 ³ MΩ
Withstanding Voltage	2.5UR,5s ± 1s, Surge current ≤ 50mA	No breakdown, flash over or visible damages

6

Performance Data

1. High frequency



7

Storage

Capacitors must be stored in the warehouse with the ambient temperature From -10°C to 40°C, relative humidity below 80%, and free of acid, alkaline or detrimental gas.
Capacitors must be in vacuum packing or in the protection of Nitrogen after unpacking.
The max. storage time is 18 months.