

FEATURES

- Capacitance:0.1μF~330μF
- Voltage:6V~50V
- Operating temperature:
 -55°C~+85°C for X5R/X7S
 -55°C~+125°C for X7R
- Tin/Lead solder plated (4% Pb minimum)
- 100% temperature cycling
- 100% accelerated steady state aging



APPLICATIONS

This series is designed for the COTS requirements, it's conditioned with MIL-PRF-49470 Group A testing, typical applications include decoupling, filtering.

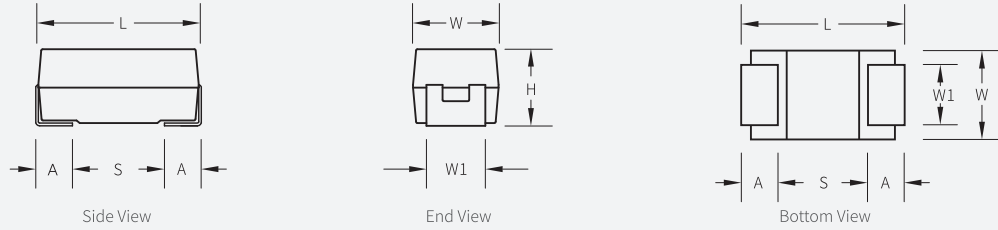
ORDERING INFORMATION

(G)	CT45	E	X7R	50V	106	M	T
Quality Grade	Series	Size Code	Dielectric	Rated Voltage	Capacitance Code(pf)	Capacitance Tolerance	Packaging
(G) : (G) LEVEL “S” : “S” LEVEL “J” : “J” LEVEL	CT45	A B C G D V	X7R X5R X5S	6V 10V 16V 25V 35V 50V 100V 200V 500V	First two digits represent significant figures, Third digit specifies number of zeros. Example: 106=10000000pF	K=±10% M=±20%	T=Bulk E=7"Reel

(G)	CT4502	T	X5R	25V	477	K	T
Quality Grade	Series	Size Code	Dielectric	Rated Voltage	Capacitance Code(pf)	Capacitance Tolerance	Packaging
(G) : (G) LEVEL “S” : “S” LEVEL “J” : “J” LEVEL	CT4502	E N J M Q T L	X7R X7S X5R X5S	6V 10V 16V 25V 35V 50V 100V 200V 500V 1KV 2KV	First two digits represent significant figures, Third digit specifies number of zeros. Example: 477=470000000pF	K=±10% M=±20%	T=Bulk

DIMENSIONS

Unit: mm



Size Code	L	W	H	W1	A
A	3.20±0.20	1.60 ^{+0.20} _{-0.10}	1.60 ^{+0.25} _{-0.10}	1.20±0.20	0.80±0.30
B	3.50±0.20	2.80 ^{+0.20} _{-0.10}	1.90 ^{+0.40} _{-0.10}	2.20±0.20	0.80±0.30
C	6.00±0.20	3.20 ^{+0.20} _{-0.10}	2.60 ^{+0.25} _{-0.10}	2.20±0.20	1.30±0.30
G	5.30±0.20	4.00±0.20	6.90 ^{+0.30} _{-0.10}	2.40±0.20	1.40±0.30
D	7.30±0.20	4.30 ^{+0.20} _{-0.10}	2.90 ^{+0.25} _{-0.10}	2.40±0.20	1.30±0.30
V	7.30±0.20	6.10±0.20	3.80±0.20	3.00±0.20	1.20±0.30
E	7.30±0.20	4.30±0.20	4.10±0.30	2.40±0.20	1.20±0.30
N	12.70±0.50	4.70±0.20	4.10±0.25	3.00±0.20	1.50±0.30
J	7.60±0.50	8.40±0.20	7.60±0.25	5.20±0.20	1.20±0.30
M	12.70±0.50	8.40±0.20	7.60±0.25	5.20±0.20	2.00±0.30
Q	12.70±0.50	12.40±0.50	7.60±0.25	9.20±0.50	2.00±0.30
T	20.50±0.50	8.40±0.20	7.60±0.25	5.20±0.20	2.00±0.30
L	30.50±0.50	9.90±0.20	8.50±0.25	6.60±0.20	3.00±0.30

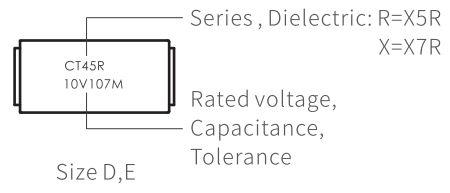
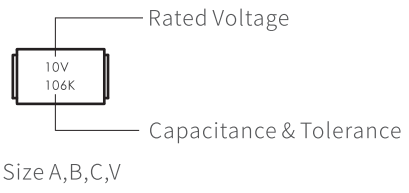
ELECTRICAL CHARACTERISTICS

C_R Unit: μF

Characteristic	Loss Tangent		Dielectric Voltage	25°C Insulation Resistance
	CT45	CT4502		
X7R X7S	U _R ≤ 50V tgδ ≤ 3.5% U _R > 50V tgδ ≤ 2.5% Side C/V: U _R ≤ 50V tgδ ≤ 10% 50V < U _R ≤ 100V tgδ ≤ 3.5% U _R > 100V tgδ ≤ 2.5%	U _R ≤ 25V tgδ ≤ 5.0% 35V ≤ U _R ≤ 100V tgδ ≤ 3.5% U _R > 100V tgδ ≤ 2.5% Side J/Q: U _R ≤ 10V tgδ ≤ 10% 16 ≤ U _R < 50V tgδ ≤ 5.0% 50V ≤ U _R ≤ 100V tgδ ≤ 3.5% U _R > 100V tgδ ≤ 2.5%	U _R ≤ 250V 2.5U _R 250V < U _R < 500V 2U _R 500V ≤ U _R < 1000V 1.5U _R U _R ≥ 1000V 1.2U _R	C _R < 0.1μF IR ≥ 4GΩ C _R ≥ 0.1μF IR ≥ $\frac{100}{C_R}$ MΩ
X5R X5S	U _R ≤ 50V tgδ ≤ 10% U _R = 100V tgδ ≤ 3.5% U _R > 100V tgδ ≤ 2.5%			

MARKING

CT45



CT4502

