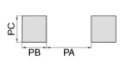
Multilayer Ceramic Chip Capacitors

C1005X7S1A105M050BC

Product Status	Production (NRND) Recommended Alternate Part No. : C1005X7S1A105K050BC (Interchangeability is not guaranteed.)
TDK Item Description	C1005X7S1A105MT****
Applications	Commercial Grade
Feature	General General (Up to 75V)
Series	C1005 [EIA 0402]
Brand	TDK
Environmental Compliance	RoHS, REACH, Halogen Free, Lead Free



Images are for reference only and show example products.

Size

Length(L)	1.00mm ±0.05mm
Width(W)	0.50mm ±0.05mm
Thickness(T)	0.50mm ±0.05mm
Terminal Width(B)	0.10mm Min.
Terminal Spacing(G)	0.30mm Min.
Recommended Land Pattern (PA)	0.30mm to 0.50mm
Recommended Land Pattern (PB)	0.35mm to 0.45mm
Recommended Land Pattern (PC)	0.40mm to 0.60mm

Electrical Characteristics

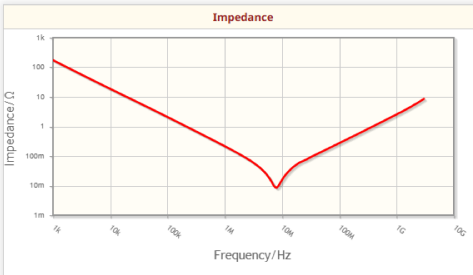
Capacitance	1µF ±20%
Rated Voltage	10VDC
Temperature Characteristic	X7S(±22%)
Dissipation Factor (Max.)	10%
Insulation Resistance (Min.)	100MΩ

Other

Operating Temp. Range	-55 to 125°C
Soldering Method	Reflow
AEC-Q200	NO
Packing	Punched (Paper)Taping [180mm Reel]
Package Quantity	10000pcs
FIT (Failure In Time)	This will be displayed when you login to myTDK

Characteristic Graph (This is reference data, and does not guarantee the products characteristics.)

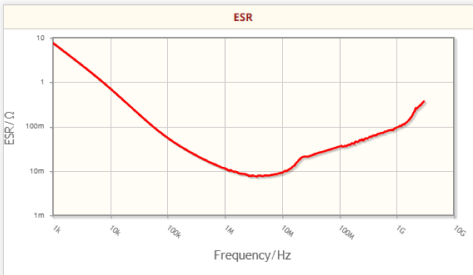
Impedance



C1005X7S1A105M050BC

Change settings

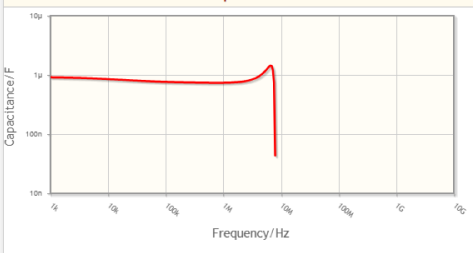
ESR



C1005X7S1A105M050BC

Change settings

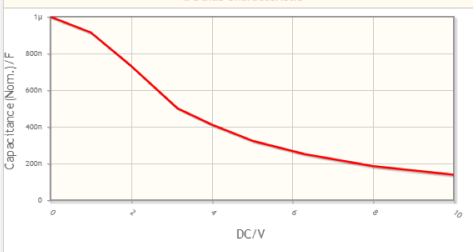
Capacitance



C1005X7S1A105M050BC

Change settings

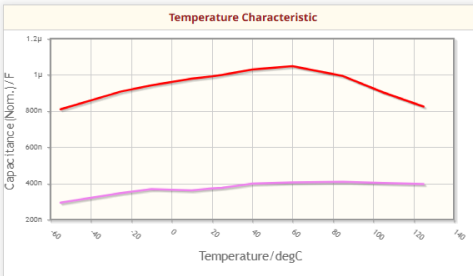
DC Bias Characteristic



C1005X7S1A105M050BC

Change settings

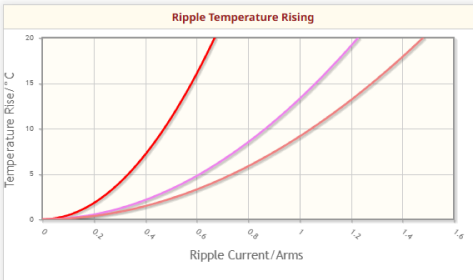
Temperature Characteristic



C1005X7S1A105M050BC(No Bias) C1005X7S1A105M050BC(DC Bias = 5V)

Change settings

Ripple Temperature Rising



C1005X7S1A105M050BC(100kHz) C1005X7S1A105M050BC(500kHz) C1005X7S1A105M050BC(1MHz)

Change settings

Recommended for you

AC-DC POWER SUPPLIES
ZWQ130-5224/L
PCB type, Multi Output (4CH), Output: 130W, +5/+12/-12/+24V
Option: With chassis

AC-DC POWER SUPPL
ZWQ80-5224
PCB type, Multi Outp
Standard type

Customer who viewed this product also viewed

MULTILAYER CERAMIC CHIP CAPACITORS
C1005NP01H3R3C050BA
Capacitance=3.3pF
Edc=50V
T.C.=NP0
LxWxT:1x0.5x0.5mm
High Temp. (Up to 150°C)

MULTILAYER CERAMI
C1005X5R1A68
Capacitance=68nF
Edc=10V
T.C.=X5R
LxWxT:1x0.5x0.5mm
General

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