

251UHDW500KG4W-AB

APPLICATIONS:

Johanson Technology offers a broad range of Single Layer Capacitors (SLC's). These SLC's are miniature wafer thin devices designed especially for optimum RF & Microwave frequency performance. Typical device heights of 4 to 8 mils minimize signal path inductance providing low insertion loss at frequencies up to 50 GHz. Split-Chips® feature a two capacitor series configuration for even lower inductance and higher resonant frequencies (up to 75 GHz). Single layer devices are ideally suited for use as tuning, bypass, and DC blocking elements in RF and microwave applications.

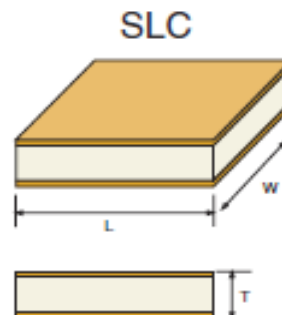
SPECIFICATIONS:

ELECTRICAL CHARACTERISTICS:

DIELECTRIC CONSTANT (K)	2000
RATED VOLTAGE (VDC)	250 VDC
CAPACITANCE	50 pF
CAPACITANCE TOLERANCE	±10%
DI TEST PARAMETERS	1 kHz @ 1.0 ± 0.2 VRMS, 25°C
TEMPERATURE COEFFICIENT	± 15 %
DISSIPATION FACTOR/FREQ	<2.50%/1kHz
DIELECTRIC STRENGTH	> 2.5 x WVDC Min., 25°C, 50 mA Max
INSULATION RESISTANCE	> 100 GΩ
TERMINATION DESCRIPTION	Au over Ni (Gold over Nickel)

MECHANICAL CHARACTERISTICS:

DIMENSIONS:			±
LENGTH - "L"			
IN	0.040		0.005
(mm)	1.02		0.13
WIDTH - "W"			
IN	0.020		0.005
(mm)	0.51		0.13
*THICKNESS - "T"			
IN	0.0075		0.0025
(mm)	0.19		0.06



Orderable Part Number

251UHDW500KG4W-AB**-AA

*SLC thickness "T" shown is typical for the given size. Actual thickness may vary depending on specific capacitance and dielectric material.

Test Requirements:

=-X, N/A (Standard Part)

JOHANSON TECHNOLOGY 		4001 Calle Tecate CAMARILLO, CA 93012		TITLE MICROWAVE SINGLE LAYER CAP		
PRESIDENT J. Petrinec	DATE	ENG. MGR: K. Kirby	DATE	PART NO. 251UHDW500KG4W-AB	DWG. SCALE NONE	
INITIATOR A. Guilin	DATE 06/08/2015	Q.A. MGR. B. Weikal	DATE	DWG. NO. 84335-0010	SHEET 1 OF 1	REV -