FEATURES

- STACKED METALLIZED ACRYLIC RESIN FILM (THERMO-CURE TYPE)
- STANDARD EIA 0805, 1206 AND 1210 SIZES
- HIGH HEAT AND MOISTURE RESISTANT
- STABLE TEMPERATURE, FREQUENCY & BIAS CHARACTERISTICS
- REFLOW SOLDERING ONLY
- TAPE AND REEL PACKAGING

SPECIFICATIONS	Case Sizes				
SPECIFICATIONS	0805	1206	1210		
Capacitance Range	0.1μF	0.15μF ~ 0.068μF	1.0μF		
Voltage Ratings	16Vdc ±20% (M)				
Capacitance Tolerance					
Temperature Range	-40°C ~ +85°C				
Dissipation Factor (20°C)	1.5% @ 1KHz/25°C C ≤ 0.33μF = 1000MΩ, C ≥ 0.47μF = 300MΩ/μF @ 10Vd				
Insulation Resistance (20°C)					
Dielectric Withstanding Voltage	175% of Rated Voltage (5 seconds)				
Dielectric Withstanding Voltage	150% of Rated Voltage (60 seconds)				
Temperature Characteristic -20% ~ +5% ∆C Maximum Over Temperature Range					





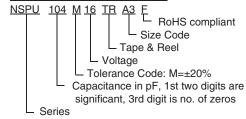
RoHS Compliant includes all homogeneous materials

*See Part Number System for Details

ENVIRONMENTAL CHARACTERISTICS

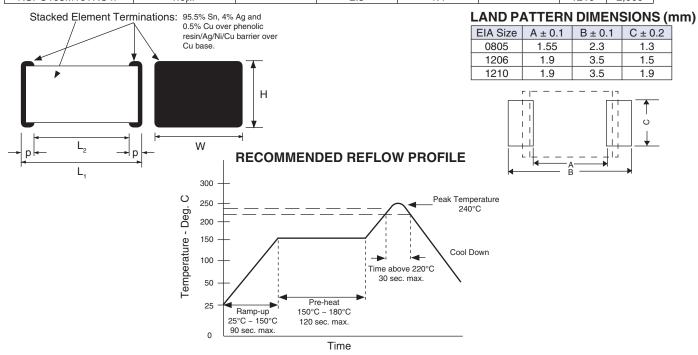
Life Test At +85°C	Capacitance Change	Within +7% ~ -20% of Initial Value			
1,000 Hours at 125% of	Dissipation Factor	1.65% Maximum @ 1KHz			
Rated Voltage	Insulation Resistance	$C \le 0.33 \mu F = 300 M\Omega \text{ Min., } C \ge 0.47 \mu F = 100 M\Omega / \mu F$			
	Capacitance Change	Within +3% ~ -15% of Initial Value			
Posistance to Coldering Heat	Dissipation Factor	1.65% Maximum ~ 1KHz			
Resistance to Soldering Heat Reflow: 240°C Peak	Insulation Resistance	$C \le 0.33 \mu F = 500 MΩ Min., C \ge 0.47 \mu F = 150 MΩ/μF$			
Tichow. 240 OT can	Withstanding Voltage	150% of rated voltage for 60 seconds			
		175% of rated voltage for 5 seconds			
Lhome Saltha Langal Life	Capacitance Change	Within +20%/-3% of Initial value			
Humidity Load Life +40°C & 90% ~ 95% RH	Dissipation Factor	2.25% Maximum			
500 Hours @ rated voltage	Insulation Resistance	$C \le 0.33 \mu F = 100 M\Omega Min., C \ge 0.47 \mu F = 30 M\Omega / \mu F$			
300 Flours & Taled Vollage	Withstanding Voltage	130% of rated voltage for 60 seconds			
Solderability with 25% Wt Rosin-Methanol Flux	90% Minimum Coverage After 2.5 Second Dip into 245°C Solder Pot				

PART NUMBER SYSTEM



STANDARD VALUES AND CASE SIZES (mm)

Part Number	Capacitance Value	Dimensions (mm)				EIA	Reel	
Fait Number		L ± 0.2	W ± 0.2	H ± 0.2	Р	Size	Qty	
NSPU104M16TRA3F	0.1μF	2.0	1.25	1.0	0.45 ± 0.25	0805	3,000	
NSPU154M16TRB4F	0.15μF	3.2			0.8		1206	3,000
NSPU224M16TRB4F	0.22μF			0.8	0.65 ± 0.30	1206	3,000	
NSPU334M16TRB5F	0.33μF		1.6	1.0		1206	3,000	
NSPU474M16TRB6F	0.47μF			1.4	0.65 ± 0.50	1206	2,000	
NSPU684M16TRB6F	0.68μF			1.4		1206	2,000	
NSPU105M16TRC4F	1.0μF		2.5	1.4		1210	2,000	



Note: These capacitors are sensitive to moisture. Capacitors should be stored in moisture barrier packaging at +25°C and a relative humidity of <70% (six months maximum). The components should be soldered within 72 hours of breaking the moisture barrier packaging seal and stored during those 72 hours at <+25°C and <70% relative humidity. If the parts are to be storage outside of the moisture barrier packaging the conditions should be <+20°C and relative humidity of less then 50%.

TAPE AND REEL DIMENSIONS (mm)

	Case Code	A ± 0.1	B ± 0.1	C ± 0.2	t ± 0.05	W ± 0.3	F ± 0.05	P ± 0.1	D +0.2/-0
	A3	1.55	2.3	1.3	0.25 8.0			4.0	1.0
	B4, B5	1.9	3.5	1.5			0.5		
	B6	1.9	3.5	1.9		3.5	4.0	1.0	
Ì	C4	2.8	3.5	1.9	1				

