

ST SERIES

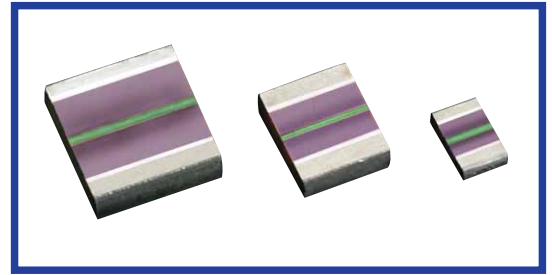
UPGRADE

◆FEATURES

- Surface-mounted device.
- Lead free reflow soldering is available.
- RoHS compliance.

◆CAUTION

ST series shall be used in only reflow method. Do not use in flow, dipping, and VPS soldering method.
Please storage in moisture proof bag with dry silica-gel after opening the moisture proof bag. Please ask for detail.



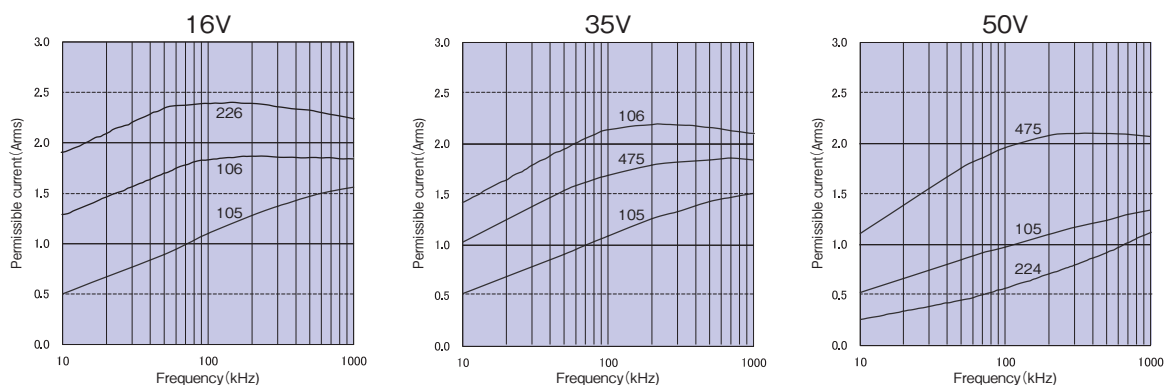
◆SPECIFICATIONS

Items	Characteristics	
Category Temperature Range	-55~+125°C	
Rated Voltage Range	16~63V.DC	100V.DC
Capacitance Range	0.001~22μF (102~226) E6 series	0.001~0.1μF (102~104) E6 series
Capacitance Tolerance	±10% (K), ±20% (M)	
Dissipation Factor (tanδ)	1.5% or less (1kHz±20%, 5Vrms or less)	
Voltage Proof	Nothing abnormal shall be found, when applying 150% of the rated voltage for 1 minute or 175% of the rated voltage for 1 second to 5 seconds.	
Insulation Resistance	C≤0.1μF:3000MΩ or more (After 1 minute application of rated voltage) C>0.1μF:300MΩ·μF or more (After 1 minute application of rated voltage)	1000MΩ or more (After 1 minute application of rated voltage)

◆PART NUMBER

Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	TP code	Chip Size
Code	ST	Code	Code			Code
16		153	K			2012
25		224	M			3216
35		684				3225
50		335				4532
63		106				5750
100		226				
Rated Voltage		Capacitance	Tolerance			Chip Size
16V.DC		0.015μF	±10%			2.0×1.25mm
25V.DC		0.22μF	±20%			3.2×1.6mm
35V.DC		0.68μF				3.2×2.5mm
50V.DC		3.3μF				4.5×3.2mm
63V.DC		10μF				5.7×5.0mm
100V.DC		22μF				

◆PERMISSIBLE CURRENT FOR FREQUENCY



◆STANDARD SIZE ($L \pm 0.3 \times W \pm 0.3 \times H \pm 0.2$)

□: Tolerance

Rated Voltage (V.DC)	Capacitance (μF)	Size			Part No.
		L (mm)	W (mm)	H (mm)	
16	0.15	2.0	1.25	0.8	16ST154□Z12012
	0.22	2.0	1.25	1.0	16ST224□Z22012
	1.0	3.2	1.6	1.4	16ST105□A23216
	1.5	3.2	1.6	1.4	16ST155□A23216
	2.2	3.2	2.5	1.8	16ST225□B23225
	3.3	3.2	2.5	2.0	16ST335□B33225
	4.7	4.5	3.2	1.4	16ST475□C14532
	6.8	4.5	3.2	1.8	16ST685□C24532
	10	4.5	3.2	2.6	16ST106□C44532
	15	5.7	5.0	1.8	16ST156□D15750
	22	5.7	5.0	2.6	16ST226□D35750
25	0.10	2.0	1.25	0.8	25ST104□Z12012
	0.15	2.0	1.25	1.0	25ST154□Z22012
	0.68	3.2	1.6	1.4	25ST684□A23216
	1.0	3.2	1.6	1.4	25ST105□A23216
	1.5	3.2	2.5	2.0	25ST155□B33225
	2.2	3.2	2.5	1.8	25ST225□B23225
	3.3	4.5	3.2	1.4	25ST335□C14532
	4.7	4.5	3.2	1.8	25ST475□C24532
	6.8	4.5	3.2	2.6	25ST685□C44532
	10	5.7	5.0	1.8	25ST106□D15750
	15	5.7	5.0	2.6	25ST156□D35750
35	0.047	2.0	1.25	0.8	35ST473□Z12012
	0.068	2.0	1.25	0.8	35ST683□Z12012
	0.10	2.0	1.25	1.0	35ST104□Z22012
	0.47	3.2	1.6	1.0	35ST474□A13216
	0.68	3.2	1.6	1.4	35ST684□A23216
	1.0	3.2	2.5	1.4	35ST105□B13225
	1.5	3.2	2.5	2.0	35ST155□B33225
	2.2	4.5	3.2	1.4	35ST225□C14532
	3.3	4.5	3.2	1.8	35ST335□C24532
	4.7	4.5	3.2	2.6	35ST475□C44532
	6.8	5.7	5.0	1.8	35ST685□D15750
	10	5.7	5.0	2.6	35ST106□D35750
50	0.033	2.0	1.25	0.8	50ST333□Z12012
	0.047	2.0	1.25	1.0	50ST473□Z22012
	0.10	3.2	1.6	1.0	50ST104□A13216
	0.22	3.2	1.6	1.0	50ST224□A13216
	0.33	3.2	1.6	1.4	50ST334□A23216
	0.47	3.2	2.5	1.4	50ST474□B13225
	0.68	3.2	2.5	1.8	50ST684□B23225
	1.0	4.5	3.2	1.4	50ST105□C14532
	1.5	4.5	3.2	1.8	50ST155□C24532
	2.2	4.5	3.2	2.6	50ST225□C44532
	3.3	5.7	5.0	1.8	50ST335□D15750
	4.7	5.7	5.0	2.6	50ST475□D35750

Rated Voltage (V.DC)	Capacitance (μF)	Size			Part No.
		L (mm)	W (mm)	H (mm)	
63	0.0010	2.0	1.25	0.8	63ST102□Z12012
	0.0015	2.0	1.25	0.8	63ST152□Z12012
	0.0022	2.0	1.25	0.8	63ST222□Z12012
	0.0033	2.0	1.25	0.8	63ST332□Z12012
	0.0047	2.0	1.25	0.8	63ST472□Z12012
	0.0068	2.0	1.25	0.8	63ST682□Z12012
	0.010	2.0	1.25	0.8	63ST103□Z12012
	0.015	2.0	1.25	0.8	63ST153□Z12012
	0.022	2.0	1.25	0.8	63ST223□Z12012
	0.033	2.0	1.25	1.0	63ST333□Z22012
	0.047	3.2	1.6	1.0	63ST473□A13216
	0.068	3.2	1.6	1.0	63ST683□A13216
	0.10	3.2	1.6	1.0	63ST104□A13216
	0.15	3.2	1.6	1.0	63ST154□A13216
	0.22	3.2	1.6	1.4	63ST224□A23216
	0.33	3.2	2.5	1.4	63ST334□B13225
	0.47	3.2	2.5	1.8	63ST474□B23225
	0.68	4.5	3.2	1.4	63ST684□C14532
	1.0	4.5	3.2	1.8	63ST105□C24532
	1.5	4.5	3.2	2.6	63ST155□C44532
100	0.0010	3.2	1.6	1.0	100ST102□A13216
	0.0015	3.2	1.6	1.0	100ST152□A13216
	0.0022	3.2	1.6	1.0	100ST222□A13216
	0.0033	3.2	1.6	1.0	100ST332□A13216
	0.0047	3.2	1.6	1.0	100ST472□A13216
	0.0068	3.2	1.6	1.0	100ST682□A13216
	0.010	3.2	1.6	1.0	100ST103□A13216
	0.015	3.2	1.6	1.0	100ST153□A13216
	0.022	3.2	1.6	1.0	100ST223□A13216
	0.033	3.2	1.6	1.0	100ST333□A13216
	0.047	3.2	1.6	1.4	100ST473□A23216
	0.068	3.2	2.5	1.4	100ST683□B13225
	0.10	3.2	2.5	1.8	100ST104□B23225

Size Code Conversion

mm	inch
2012	0805
3216	1206
3225	1210
4532	1812
5750	2220

Chip Size	e(mm)
2012	0.4
3216	0.5
3225	
4532	
5750	

◆DIMENSIONS

(mm)

