

Features

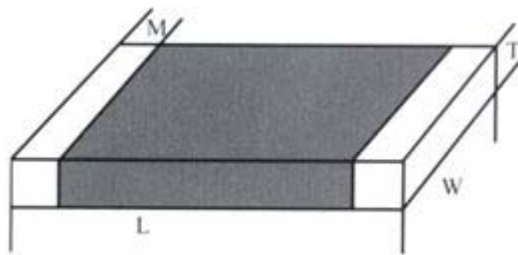
1. RoHS compliant
2. High surge suppress capability
3. EIA size 0402 ~ 2220
4. Operating voltage: 5.5 ~ 85 Vdc
5. Bidirectional and symmetrical V/I characteristics
6. Multilayer ceramic construction technology
7. Variable capacitance
8. -40 ~ +125°C operating temperature range

Recommended Applications

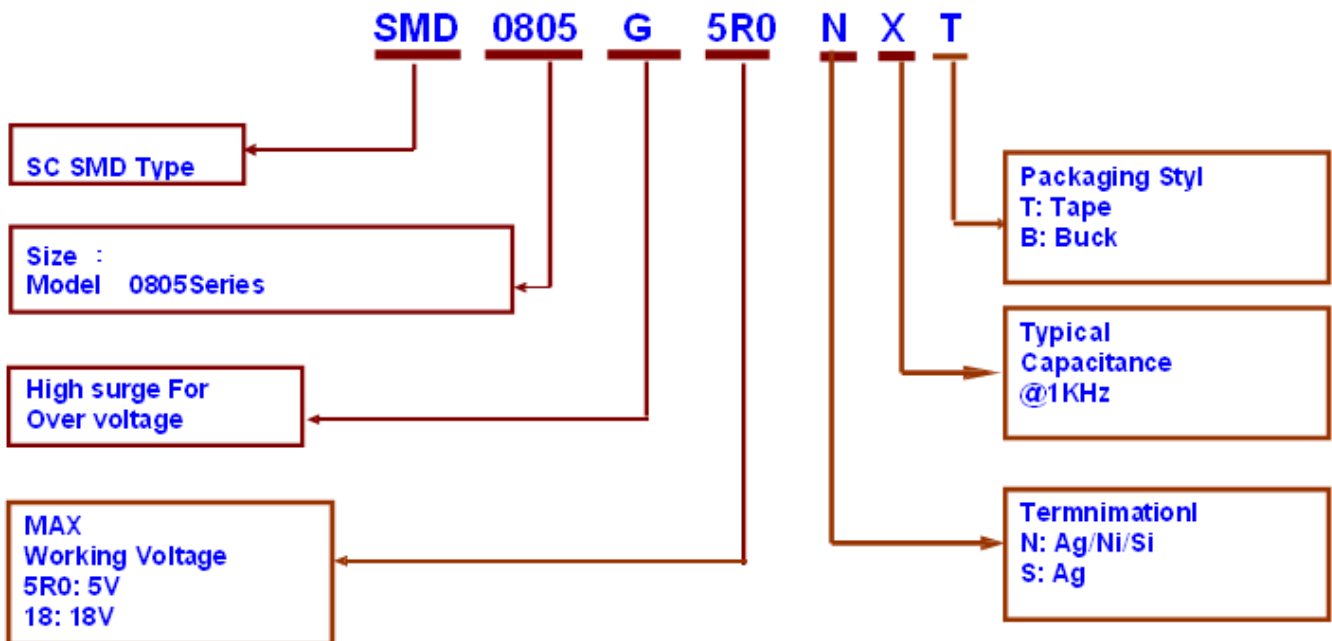
1. Power system
2. Mother board / notebook
3. Scanner
4. Handheld devices
5. Digital video
6. Set-top box



Outlook and Dimension (Unit: mm)



Type	L	W	T	MB
0402	1.0 ± 0.10	0.5 ± 0.10	0.5 ± 0.20	0.30+0.2/-0.1
0603	1.6 ± 0.15	0.8 ± 0.10	0.8 ± 0.20	0.30+0.2/-0.1
0805	2.0 ± 0.20	1.25 ± 0.15	0.8 ± 0.20	0.30+0.2/-0.1
1206	3.2 ± 0.20	1.6 ± 0.15	1.2 ± 0.20	0.40+0.2/-0.2
1210	3.2 ± 0.20	2.5 ± 0.20	1.2 ± 0.20	0.40+0.2/-0.1
1812	4.5 ± 0.20	3.20 ± 0.20	1.3 ± 0.20	0.50+0.2/-0.1
2220	5.7 ± 0.20	5.00 ± 0.20	1.5 ± 0.20	0.80+0.2/-0.1
3220	8.0 ± 0.20	5.00 ± 0.20	2.0 ± 0.20	0.80+0.2/-0.1
4032	10.0 ± 0.20	8.00 ± 0.20	2.0 ± 0.20	0.80+0.2/-0.1
4840	12.0 ± 0.20	10.00 ± 0.20	2.5 ± 0.20	0.80+0.2/-0.1



SMD0402~SMD1210 Serials

Part Number	Max. Operating Voltage		Varistor Voltage (@ 1mA DC)		Max. Clamping Voltage	Max. Surge Current	Max. Energy	Typical Capacitance
	Vac	Vdc	V1mA(V)		Vc(V)	Ip(A)	Et(J)	Cp(pF)
			Vb(V)		8/20μs 1A	8/20μs	10/1000μs	1KHz/1V
SMD0402G3R3NXT	2.5	3.3	5	±20%	10	10	0.02	by user
SMD0402G5R6NXT	4	5.6	8	±20%	15.5	10	0.02	by user
SMD0402G8R0NXT	5.7	8	12	±20%	25	10	0.05	by user
SMD0402G9R0NXT	6	9	12	±10%	25	10	0.05	by user
SMD0402G110NXT	7.8	11	14	±15%	35	10	0.05	by user
SMD0402G140NXT	10	14	18	±15%	45	10	0.05	by user
SMD0405G180NXT	14	18	25	±15%	53	10	0.05	by user
SMD0405G220NXT	17	22	27	±10%	58	10	0.05	by user
SMD0402G260NXT	20	26	33	±10%	60	10	0.05	by user
SMD0402G300NXT	25	30	39	±10%	72	10	0.05	by user
SMD0402G380NXT	30	38	47	±10%	85	10	0.05	by user
SMD0603G3R0NXT	2.2	3	4.8	±25%	10	20	0.05	by user
SMD0603G3R3NXT	2.5	3.3	5	±20%	10	20	0.05	by user
SMD0603G5R6NXT	4	5.6	8	±20%	15.5	20	0.05	by user
SMD0603G8R0NXT	5.7	8	12	±20%	25	30	0.1	by user
SMD0603G9R0NXT	6	9	13	±20%	25	30	0.1	by user
SMD0603G110NXT	8	11	15	±15%	28	30	0.1	by user
SMD0603G120NXT	9	12	16	±15%	30	30	0.1	by user
SMD0603G140NXT	10	14	18	±15%	35	30	0.1	by user
SMD0603G160NXT	12	16	22	±15%	37	30	0.1	by user
SMD0603G180NXT	14	18	25	±10%	52	30	0.1	by user
SMD0603G220NXT	15	22	27	±10%	58	30	0.1	by user
SMD0603G260NXT	20	26	33	±10%	65	30	0.1	by user
SMD0603G300NXT	22	30	39	±10%	72	30	0.1	by user
SMD0603G380NXT	30	38	47	±10%	81	30	0.1	by user
SMD0603G450NXT	35	45	56	±10%	100	30	0.1	by user
SMD0805G3R0NXT	2.2	3	4.8	±25%	10	30	0.1	by user
SMD0805G3R3NXT	2.5	3.3	5	±20%	10	30	0.1	by user
SMD0805G5R6NXT	4	5.6	8	±20%	15.5	30	0.1	by user
SMD0805G8R0NXT	5.7	8	12	±20%	25	30	0.1	by user
SMD0805G9R0NXT	6	9	13	±20%	25	30	0.1	by user
SMD0805G110NXT	8	11	15	±15%	28	35	0.1	by user
SMD0805G120NXT	9	12	16	±15%	30	35	0.1	by user
SMD0805G140NXT	10	14	18	±15%	35	40	0.2	by user
SMD0805G160NXT	12	16	22	±15%	37	40	0.2	by user
SMD0805G180NXT	14	18	25	±10%	52	40	0.2	by user
SMD0805G220NXT	15	22	27	±10%	58	40	0.2	by user
SMD0805G260NXT	20	26	33	±10%	65	40	0.2	by user
SMD0805G300NXT	22	30	39	±10%	72	40	0.2	by user
SMD0805G380NXT	30	38	47	±10%	81	40	0.2	by user
SMD0805G450NXT	35	45	56	±10%	100	40	0.2	by user
SMD1206G3R0NXT	2.2	3	4.8	±25%	10	40	0.2	by user
SMD1206G3R3NXT	2.5	3.3	5	±20%	10	40	0.2	by user
SMD1206G5R6NXT	4	5.6	8	±20%	15.5	40	0.2	by user

SMD1206G8R0NXT	5.7	8	12	±20%	25	40	0.2	by user
SMD1206G9R0NXT	6	9	13	±20%	25	50	0.2	by user
SMD1206G110NXT	8	11	15	±15%	28	50	0.2	by user
SMD1206G120NXT	9	12	16	±15%	30	50	0.2	by user
SMD1206G140NXT	10	14	18	±15%	35	60	0.2	by user
SMD1206G160NXT	12	16	22	±15%	37	60	0.2	by user
SMD1206G180NXT	14	18	25	±10%	52	80	0.3	by user
SMD1206G220NXT	15	22	27	±10%	58	80	0.3	by user
SMD1206G260NXT	20	26	33	±10%	65	100	0.4	by user
SMD1206G300NXT	22	30	39	±10%	72	100	0.4	by user
SMD1206G380NXT	30	38	47	±10%	81	100	0.4	by user
SMD1206G400NXT	31	40	53	±10%	90	100	0.4	by user
SMD1206G450NXT	32	45	56	±10%	100	100	0.4	by user
SMD1206G480NXT	34	48	62	±10%	110	120	0.5	by user
SMD1206G560NXT	40	56	68	±10%	136	120	0.5	by user
SMD1206G750NXT	56	75	100	±10%	150	130	0.6	by user
SMD1210G5R6NXT	4	5.6	8	±20%	15.5	80	0.2	by user
SMD1210G8R0NXT	5.7	8	12	±20%	25	100	0.5	by user
SMD1210G9R0NXT	6	9	13	±20%	25	100	0.5	by user
SMD1210G110NXT	8	11	15	±15%	28	100	0.5	by user
SMD1210G120NXT	9	12	16	±15%	30	100	0.5	by user
SMD1210G140NXT	10	14	18	±15%	35	150	1	by user
SMD1210G160NXT	12	16	22	±15%	37	150	1	by user
SMD1210G180NXT	14	18	25	±10%	52	150	1	by user
SMD1210G220NXT	15	22	27	±10%	58	180	1	by user
SMD1210G260NXT	20	26	33	±10%	65	200	1.2	by user
SMD1210G300NXT	22	30	39	±10%	72	200	1.2	by user
SMD1210G380NXT	30	38	47	±10%	81	200	1.2	by user
SMD1210G400NXT	31	40	53	±10%	90	200	1.5	by user
SMD1210G450NXT	32	45	56	±10%	100	200	1.5	by user
SMD1210G480NXT	34	48	62	±10%	110	250	2	by user
SMD1210G560NXT	40	56	68	±10%	136	250	2	by user
SMD1210G750NXT	56	75	100	±10%	200	250	2	by user

SMD1812~SMD4820 Series

Part Number	Max. Operating Voltage		Varistor Voltage (@ 1mA DC)		Max. Clamping Voltage	Max. Surge Current	Max. Energy	Typical Capacitance
	Vac	Vdc	V1mA(V)		Vc(V)	Ip(A)	Et(J)	Cp(pF)
			Vb(V)		8/20μs 1A	8/20μs	10/1000μs	1KHz/1V
SMD1812G180N	14	18	25	±10%	38	400	1	by user
SMD1812G220N	17	22	27	±10%	45	400	1	by user
SMD1812G250N	20	26	33	±10%	45	400	1	by user
SMD1812G280N	23	28	38	±10%	45	400	1	by user
SMD1812G300N	25	30	39	±10%	55	400	1	by user
SMD1812G380N	30	38	47	±10%	77	400	1	by user
SMD1812G480N	34	48	62	±10%	80	400	1	by user
SMD1812G560N	40	56	68	±10%	120	500	2	by user
SMD1812G750N	55	75	100	±10%	120	500	2	by user
SMD1812G850N	60	85	100	±10%	160	500	2	by user

SMD1812G101N	75	100	120	±10%	250	500	2.5	by user
SMD2220G180N	14	18	25	±10%	38	600	2	by user
SMD2220G250N	20	26	33	±10%	45	600	2	by user
SMD2220G300N	25	30	39	±10%	55	600	2	by user
SMD2220G380N	30	38	47	±10%	77	600	2	by user
SMD2220G470N	34	47	62	±10%	85	600	2	by user
SMD2220G101N	75	100	120	±10%	200	600	2.5	by user
SMD3220G101N	75	100	120	±10%	200	500	3	by user
SMD3220G201N	150	200	240	±10%	360	500	3	by user
SMD3220G221N	175	220	270	±10%	380	500	3	by user
SMD3220G321N	250	320	390	±10%	650	500	3	by user
SMD3220G351N	275	350	430	±10%	710	500	4.5	by user
SMD3220G381N	300	380	470	±10%	775	500	5	by user
SMD4032G101N	75	100	120	±10%	200	500	5	by user
SMD4032G321N	250	320	390	±10%	650	500	5	by user
SMD4032G351N	275	350	430	±10%	710	500	5	by user
SMD4032G381N	300	380	470	±10%	775	500	5	by user
SMD4840G101N	75	100	120	±10%	200	500	5	by user
SMD4840G321N	250	320	390	±10%	650	500	5	by user
SMD4840G351N	275	350	430	±10%	710	500	5	by user
SMD4840G381N	300	380	470	±10%	775	500	5	by user