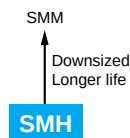


SMH Series

- Endurance with ripple current : 2,000 hours at 85°C
- Non solvent resistant type
- RoHS Compliant

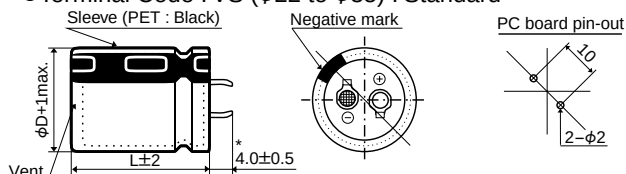


◆SPECIFICATIONS

Items	Characteristics										
Category	-40 to +85°C										
Temperature Range											
Rated Voltage Range	6.3 to 100V _{dc}										
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)										
Leakage Current	I=0.02CV or 3mA, whichever is smaller. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes)										
Dissipation Factor (tanδ)	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	50V	63V	80V	100V	(at 20°C, 120Hz)
	tanδ (Max.)	0.60	0.50	0.40	0.30	0.25	0.20	0.15	0.15	0.15	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	50V	63V	80V	100V	(at 120Hz)
	Z(-25°C)/Z(+20°C)	4	4	4	3	3	2	2	2	2	
	Z(-40°C)/Z(+20°C)	15	15	15	10	8	6	6	5	5	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 85°C.										
	Capacitance change	≤±20% of the initial value									
	D.F. (tanδ)	≤200% of the initial specified value									
	Leakage current	≤The initial specified value									
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 85°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.										
	Capacitance change	≤±20% of the initial value									
	D.F. (tanδ)	≤150% of the initial specified value									
	Leakage current	≤The initial specified value									

◆DIMENSIONS [mm]

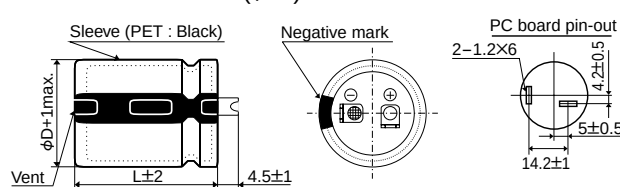
●Terminal Code : VS (φ22 to φ35) : Standard



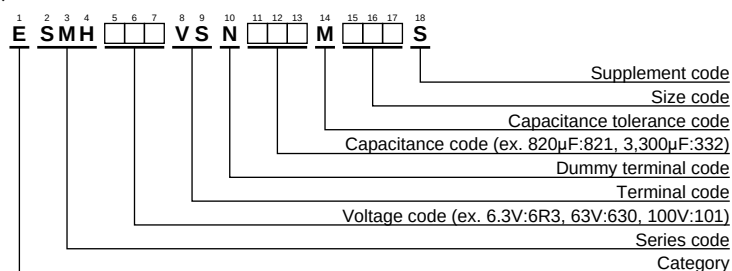
*φD=35mm : 3.5±0.5mm

The standard design has no plastic disc.

●Terminal Code : LI (φ35)



◆PART NUMBERING SYSTEM



Please refer to "Product code guide (snap-in type)"

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 85°C,120Hz)	Part No.	WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 85°C,120Hz)	Part No.
6.3	15,000	22×25	0.60	2.44	ESMH6R3VSN153MP25S	16	27,000	25.4×45	0.40	4.72	ESMH160VSN273MQ45S
	18,000	22×30	0.60	2.67	ESMH6R3VSN183MP30S		27,000	30×35	0.40	4.82	ESMH160VSN273MR35S
	18,000	25.4×25	0.60	2.70	ESMH6R3VSN183MQ25S		27,000	35×30	0.40	4.65	ESMH160VSN273MA30S
	22,000	22×30	0.60	3.06	ESMH6R3VSN223MP30S		33,000	25.4×50	0.40	5.33	ESMH160VSN333MQ50S
	22,000	25.4×25	0.60	3.07	ESMH6R3VSN223MQ25S		33,000	30×40	0.40	5.36	ESMH160VSN333MR40S
	27,000	22×35	0.60	3.49	ESMH6R3VSN273MP35S		33,000	35×30	0.40	5.15	ESMH160VSN333MA30S
	27,000	25.4×30	0.60	3.52	ESMH6R3VSN273MQ30S		39,000	30×45	0.40	6.01	ESMH160VSN393MR45S
	27,000	30×25	0.60	3.57	ESMH6R3VSN273MR25S		39,000	35×35	0.40	5.95	ESMH160VSN393MA35S
	33,000	22×40	0.60	3.97	ESMH6R3VSN333MP40S		47,000	30×50	0.40	6.79	ESMH160VSN473MR50S
	33,000	25.4×35	0.60	4.02	ESMH6R3VSN333MQ35S		47,000	35×40	0.40	6.76	ESMH160VSN473MA40S
	33,000	30×25	0.60	3.95	ESMH6R3VSN333MR25S		56,000	35×45	0.40	7.62	ESMH160VSN563MA45S
	39,000	22×50	0.60	4.55	ESMH6R3VSN393MP50S		68,000	35×50	0.40	8.63	ESMH160VSN683MA50S
	39,000	25.4×40	0.60	4.50	ESMH6R3VSN393MQ40S	25	5,600	22×25	0.30	2.21	ESMH250VSN562MP25S
	39,000	30×30	0.60	4.45	ESMH6R3VSN393MR30S		6,800	22×30	0.30	2.40	ESMH250VSN682MP30S
	39,000	35×25	0.60	4.51	ESMH6R3VSN393MA25S		6,800	25.4×25	0.30	2.56	ESMH250VSN682MQ25S
	47,000	25.4×45	0.60	5.09	ESMH6R3VSN473MQ45S		8,200	22×35	0.30	2.72	ESMH250VSN822MP35S
	47,000	30×35	0.60	5.06	ESMH6R3VSN473MR35S		8,200	25.4×25	0.30	2.80	ESMH250VSN822MQ25S
	47,000	35×30	0.60	5.01	ESMH6R3VSN473MA30S		10,000	22×40	0.30	3.09	ESMH250VSN103MP40S
	56,000	25.4×50	0.60	5.71	ESMH6R3VSN563MQ50S		10,000	25.4×30	0.30	3.12	ESMH250VSN103MQ30S
	56,000	30×40	0.60	5.70	ESMH6R3VSN563MR40S		10,000	30×25	0.30	3.21	ESMH250VSN103MR25S
	56,000	35×30	0.60	5.77	ESMH6R3VSN563MA30S		12,000	22×45	0.30	3.48	ESMH250VSN123MP45S
	68,000	30×45	0.60	6.48	ESMH6R3VSN683MR45S		12,000	25.4×35	0.30	3.43	ESMH250VSN123MQ35S
	68,000	35×35	0.60	6.42	ESMH6R3VSN683MA35S		12,000	30×30	0.30	3.86	ESMH250VSN123MR30S
	82,000	30×50	0.60	7.32	ESMH6R3VSN823MR50S		12,000	35×25	0.30	3.54	ESMH250VSN123MA25S
	82,000	35×40	0.60	7.29	ESMH6R3VSN823MA40S		15,000	22×50	0.30	4.00	ESMH250VSN153MP50S
	100,000	35×45	0.60	8.31	ESMH6R3VSN104MA45S		15,000	25.4×40	0.30	3.95	ESMH250VSN153MQ40S
	12,000	22×25	0.50	2.39	ESMH100VSN123MP25S		15,000	30×30	0.30	4.00	ESMH250VSN153MR30S
	15,000	22×30	0.50	2.76	ESMH100VSN153MP30S		15,000	35×25	0.30	3.95	ESMH250VSN153MA25S
	15,000	25.4×25	0.50	2.77	ESMH100VSN153MQ25S		18,000	25.4×45	0.30	4.45	ESMH250VSN183MQ45S
	18,000	22×35	0.50	3.12	ESMH100VSN183MP35S		18,000	30×35	0.30	4.46	ESMH250VSN183MR35S
	18,000	25.4×25	0.50	3.04	ESMH100VSN183MQ25S		18,000	35×30	0.30	4.63	ESMH250VSN183MA30S
	22,000	22×40	0.50	3.55	ESMH100VSN223MP40S		22,000	25.4×50	0.30	5.02	ESMH250VSN223MQ50S
	22,000	25.4×30	0.50	3.48	ESMH100VSN223MQ30S		22,000	30×45	0.30	5.21	ESMH250VSN223MR45S
	22,000	30×25	0.50	3.53	ESMH100VSN223MR25S		22,000	35×35	0.30	5.16	ESMH250VSN223MA35S
	27,000	22×45	0.50	4.04	ESMH100VSN273MP45S		27,000	30×50	0.30	5.94	ESMH250VSN273MR50S
	27,000	25.4×35	0.50	3.98	ESMH100VSN273MQ35S		27,000	35×40	0.30	5.92	ESMH250VSN273MA40S
	27,000	30×30	0.50	3.73	ESMH100VSN273MR30S		33,000	35×45	0.30	6.75	ESMH250VSN333MA45S
	27,000	35×25	0.50	3.73	ESMH100VSN273MA25S		39,000	35×50	0.30	7.56	ESMH250VSN393MA50S
	33,000	22×50	0.50	4.58	ESMH100VSN333MP50S	35	3,900	22×25	0.25	2.22	ESMH350VSN392MP25S
	33,000	25.4×40	0.50	4.54	ESMH100VSN333MQ40S		4,700	22×30	0.25	2.41	ESMH350VSN472MP30S
	33,000	30×30	0.50	4.13	ESMH100VSN333MR30S		4,700	25.4×25	0.25	2.42	ESMH350VSN472MQ25S
	33,000	35×25	0.50	4.13	ESMH100VSN333MA25S		5,600	22×35	0.25	2.75	ESMH350VSN562MP35S
	39,000	25.4×45	0.50	5.08	ESMH100VSN393MQ45S		5,600	25.4×25	0.25	2.64	ESMH350VSN562MQ25S
	39,000	30×35	0.50	5.05	ESMH100VSN393MR35S		6,800	22×40	0.25	2.80	ESMH350VSN682MP40S
	39,000	35×30	0.50	4.80	ESMH100VSN393MA30S		6,800	25.4×30	0.25	2.74	ESMH350VSN682MQ30S
	47,000	25.4×50	0.50	5.73	ESMH100VSN473MQ50S		6,800	30×25	0.25	2.97	ESMH350VSN682MR25S
	47,000	30×40	0.50	5.72	ESMH100VSN473MR40S		8,200	22×45	0.25	3.47	ESMH350VSN822MP45S
	47,000	35×30	0.50	5.27	ESMH100VSN473MA30S		8,200	25.4×35	0.25	3.10	ESMH350VSN822MQ35S
	56,000	30×45	0.50	6.44	ESMH100VSN563MR45S		8,200	30×30	0.25	3.13	ESMH350VSN822MR30S
	56,000	35×35	0.50	6.38	ESMH100VSN563MA35S		8,200	35×25	0.25	2.73	ESMH350VSN822MA25S
	68,000	30×50	0.50	7.27	ESMH100VSN683MR50S		10,000	22×50	0.25	3.57	ESMH350VSN103MP50S
	68,000	35×40	0.50	7.27	ESMH100VSN683MA40S		10,000	25.4×40	0.25	3.53	ESMH350VSN103MQ40S
	82,000	35×50	0.50	8.49	ESMH100VSN823MA50S		10,000	30×30	0.25	3.46	ESMH350VSN103MR30S
	8,200	22×25	0.40	2.51	ESMH160VSN822MP25S		10,000	35×25	0.25	3.02	ESMH350VSN103MA25S
	10,000	22×25	0.40	2.77	ESMH160VSN103MP25S		12,000	25.4×45	0.25	3.98	ESMH350VSN123MQ45S
	12,000	22×30	0.40	2.86	ESMH160VSN123MP30S		12,000	30×35	0.25	4.01	ESMH350VSN123MR35S
	12,000	25.4×25	0.40	2.95	ESMH160VSN123MQ25S		12,000	35×30	0.25	4.42	ESMH350VSN123MA30S
	15,000	22×35	0.40	3.29	ESMH160VSN153MP35S		15,000	25.4×50	0.25	4.54	ESMH350VSN153MQ50S
	15,000	25.4×30	0.40	3.46	ESMH160VSN153MQ30S		15,000	30×40	0.25	4.52	ESMH350VSN153MR40S
	15,000	30×25	0.40	3.66	ESMH160VSN153MR25S		15,000	35×35	0.25	5.01	ESMH350VSN153MA35S
	18,000	22×40	0.40	3.72	ESMH160VSN183MP40S	50	18,000	30×45	0.25	4.71	ESMH350VSN183MR45S
	18,000	25.4×35	0.40	3.98	ESMH160VSN183MQ35S		18,000	35×40	0.25	5.54	ESMH350VSN183MA40S
	18,000	30×25	0.40	4.00	ESMH160VSN183MR25S		22,000	30×50	0.25	5.33	ESMH350VSN223MR50S
	22,000	22×50	0.40	4.37	ESMH160VSN223MP50S		22,000	35×45	0.25	6.04	ESMH350VSN223MA45S
	22,000	25.4×40	0.40	4.26	ESMH160VSN223MQ40S		27,000	35×50	0.25	6.89	ESMH350VSN273MA50S
	22,000	30×30	0.40	4.21	ESMH160VSN223MR30S		2,200	22×25	0.20	1.91	ESMH500VSN222MP25S
	22,000	35×25	0.40	4.15	ESMH160VSN223MA25S		3,300	22×30	0.20	2.37	ESMH500VSN332MP30S

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 85°C, 120Hz)	Part No.	WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 85°C, 120Hz)	Part No.
50	3,300	25.4 × 25	0.20	2.38	ESMH500VSN332MQ25S	80	1,200	22 × 25	0.15	1.69	ESMH800VSN122MP25S
	3,900	22 × 35	0.20	2.65	ESMH500VSN392MP35S		1,500	22 × 25	0.15	1.88	ESMH800VSN152MP25S
	3,900	25.4 × 30	0.20	2.68	ESMH500VSN392MQ30S		1,800	22 × 30	0.15	2.14	ESMH800VSN182MP30S
	3,900	30 × 25	0.20	2.55	ESMH500VSN392MR25S		1,800	25.4 × 25	0.15	2.26	ESMH800VSN182MQ25S
	4,700	22 × 40	0.20	2.99	ESMH500VSN472MP40S		2,200	22 × 35	0.15	2.44	ESMH800VSN222MP35S
	4,700	25.4 × 35	0.20	3.03	ESMH500VSN472MQ35S		2,200	25.4 × 30	0.15	2.46	ESMH800VSN222MQ30S
	4,700	30 × 25	0.20	2.81	ESMH500VSN472MR25S		2,200	30 × 25	0.15	2.49	ESMH800VSN222MR25S
	5,600	22 × 45	0.20	3.36	ESMH500VSN562MP45S		2,700	22 × 40	0.15	2.78	ESMH800VSN272MP40S
	5,600	25.4 × 35	0.20	3.31	ESMH500VSN562MQ35S		2,700	25.4 × 35	0.15	2.81	ESMH800VSN272MQ35S
	5,600	30 × 30	0.20	3.37	ESMH500VSN562MR30S		2,700	30 × 25	0.15	2.75	ESMH800VSN272MR30S
	5,600	35 × 25	0.20	3.42	ESMH500VSN562MA25S		3,300	22 × 45	0.15	3.16	ESMH800VSN332MP45S
	6,800	22 × 50	0.20	3.81	ESMH500VSN682MP50S		3,300	25.4 × 40	0.15	3.21	ESMH800VSN332MQ40S
	6,800	25.4 × 40	0.20	3.81	ESMH500VSN682MQ40S		3,300	30 × 30	0.15	3.17	ESMH800VSN332MR30S
	6,800	30 × 35	0.20	3.85	ESMH500VSN682MR35S		3,300	35 × 25	0.15	3.21	ESMH800VSN332MA25S
	6,800	35 × 30	0.20	3.85	ESMH500VSN682MA30S		3,900	22 × 50	0.15	3.52	ESMH800VSN392MP50S
	8,200	25.4 × 50	0.20	4.37	ESMH500VSN822MQ50S		3,900	25.4 × 45	0.15	3.59	ESMH800VSN392MQ45S
	8,200	30 × 40	0.20	4.36	ESMH500VSN822MR40S		3,900	30 × 35	0.15	3.57	ESMH800VSN392MR35S
	8,200	35 × 30	0.20	4.41	ESMH500VSN822MA30S		3,900	35 × 25	0.15	3.50	ESMH800VSN392MA25S
63	10,000	30 × 45	0.20	4.97	ESMH500VSN103MR45S	100	4,700	25.4 × 50	0.15	4.05	ESMH800VSN472MQ50S
	10,000	35 × 35	0.20	4.92	ESMH500VSN103MA35S		4,700	30 × 40	0.15	4.05	ESMH800VSN472MR40S
	12,000	30 × 50	0.20	5.60	ESMH500VSN123MR50S		4,700	35 × 30	0.15	4.09	ESMH800VSN472MA30S
	12,000	35 × 40	0.20	5.58	ESMH500VSN123MA40S		5,600	30 × 45	0.15	4.55	ESMH800VSN562MR45S
	15,000	35 × 45	0.20	6.44	ESMH500VSN153MA45S		5,600	35 × 35	0.15	4.51	ESMH800VSN562MA35S
	18,000	35 × 50	0.20	6.71	ESMH500VSN183MA50S		6,800	30 × 50	0.15	5.16	ESMH800VSN682MR50S
	1,800	22 × 25	0.15	1.82	ESMH630VSN182MP25S		6,800	35 × 40	0.15	5.14	ESMH800VSN682MA40S
	2,200	22 × 30	0.15	2.31	ESMH630VSN222MP30S		8,200	35 × 45	0.15	5.83	ESMH800VSN822MA45S
	2,200	25.4 × 25	0.15	2.30	ESMH630VSN222MQ25S		10,000	35 × 50	0.15	6.63	ESMH800VSN103MA50S
	2,700	22 × 35	0.15	2.40	ESMH630VSN272MP35S		820	22 × 25	0.15	1.86	ESMH101VSN821MP25S
	2,700	25.4 × 25	0.15	2.40	ESMH630VSN272MQ25S		1,200	22 × 30	0.15	2.09	ESMH101VSN122MP30S
	3,300	22 × 35	0.15	2.62	ESMH630VSN332MP35S		1,200	25.4 × 25	0.15	2.10	ESMH101VSN122MQ25S
	3,300	25.4 × 30	0.15	2.64	ESMH630VSN332MQ30S		1,500	22 × 35	0.15	2.41	ESMH101VSN152MP35S
	3,300	30 × 25	0.15	2.78	ESMH630VSN332MR25S		1,500	25.4 × 30	0.15	2.43	ESMH101VSN152MQ30S
	3,900	22 × 40	0.15	2.93	ESMH630VSN392MP40S		1,500	30 × 25	0.15	2.46	ESMH101VSN152MR25S
	3,900	25.4 × 35	0.15	2.97	ESMH630VSN392MQ35S		1,800	22 × 40	0.15	2.71	ESMH101VSN182MP40S
	3,900	30 × 30	0.15	3.00	ESMH630VSN392MR30S		1,800	25.4 × 35	0.15	2.75	ESMH101VSN182MQ35S
	3,900	35 × 25	0.15	3.00	ESMH630VSN392MA25S		1,800	30 × 25	0.15	2.72	ESMH101VSN182MR25S
63	4,700	22 × 50	0.15	3.39	ESMH630VSN472MP50S		2,200	22 × 45	0.15	3.08	ESMH101VSN222MP45S
	4,700	25.4 × 40	0.15	3.36	ESMH630VSN472MQ40S		2,200	25.4 × 40	0.15	3.13	ESMH101VSN222MQ40S
	4,700	30 × 30	0.15	3.32	ESMH630VSN472MR30S		2,200	30 × 30	0.15	3.09	ESMH101VSN222MR30S
	4,700	35 × 25	0.15	3.36	ESMH630VSN472MA25S		2,200	35 × 25	0.15	3.14	ESMH101VSN222MA25S
	5,600	25.4 × 45	0.15	3.77	ESMH630VSN562MQ45S		2,700	22 × 50	0.15	3.53	ESMH101VSN272MP50S
	5,600	30 × 35	0.15	3.75	ESMH630VSN562MR35S		2,700	25.4 × 45	0.15	3.57	ESMH101VSN272MQ45S
	5,600	35 × 30	0.15	3.76	ESMH630VSN562MA30S		2,700	30 × 35	0.15	3.55	ESMH101VSN272MR35S
	6,800	25.4 × 50	0.15	4.27	ESMH630VSN682MQ50S		2,700	35 × 30	0.15	3.71	ESMH101VSN272MA30S
	6,800	30 × 40	0.15	4.27	ESMH630VSN682MR40S		3,300	25.4 × 50	0.15	4.06	ESMH101VSN332MQ50S
	6,800	35 × 30	0.15	4.15	ESMH630VSN682MA30S		3,300	30 × 40	0.15	4.05	ESMH101VSN332MR40S
	8,200	30 × 45	0.15	4.83	ESMH630VSN822MR45S		3,300	35 × 30	0.15	4.05	ESMH101VSN332MA30S
	8,200	35 × 35	0.15	4.79	ESMH630VSN822MA35S		3,900	30 × 45	0.15	4.54	ESMH101VSN392MR45S
	10,000	30 × 50	0.15	5.49	ESMH630VSN103MR50S		3,900	35 × 35	0.15	4.49	ESMH101VSN392MA35S
	10,000	35 × 40	0.15	5.47	ESMH630VSN103MA40S		4,700	30 × 50	0.15	5.13	ESMH101VSN472MR50S
	12,000	35 × 45	0.15	6.19	ESMH630VSN123MA45S		4,700	35 × 40	0.15	5.11	ESMH101VSN472MA40S
							5,600	35 × 45	0.15	5.75	ESMH101VSN562MA45S
							6,800	35 × 50	0.15	6.50	ESMH101VSN682MA50S

*For the rated voltage ≥ 160Vdc, please use SMQ series

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Frequency (Hz)	50	120	300	1k	10k	50k
6.3 to 50Vdc	0.95	1.00	1.03	1.05	1.08	1.08
63 to 100Vdc	0.92	1.00	1.07	1.13	1.19	1.20

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

Mouser Electronics

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SMH16VN223M30X30T2	SMH180VN182M35X45T2	SMH200VN102M25X50T2	SMH250VR152M35X50T4H
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SMH450VN101M25X30T2	SMH400VN122M35X80T2	SMH250VR332M40X80T5H	SMH250VN471M25X35T2
SMH80VN682M30X50T2	SMH35VN333M35X63T2	SMH80VR223M40X80T5H	SMH250VN331M25X30T2
SMH450VN561M35X63T2	SMH100VN332M30X40T2	SMH35VN153M30X40T2	SMH35VN273M35X50T2
SMH400VN221M30X35T2	SMH400VN271M30X35T2	SMH250VN681M25X50T2	SMH250VN561M35X25T2
SMH400VN101M25X25T2	SMH63VN332M25X30T2	SMH450VR102M40X63T5H	SMH450VN221M30X40T2
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SMH50VN392M25X30T2	SMH450VN331M35X40T2	SMH200VN272M35X63T2	SMH250VR471M30X30T3H
SMH10VR823M35X50T4	SMH350VN681M35X45T2	SMH16VN223M25X40T2	SMH400VN391M35X35T2
SMH80VN222M25X30T2	SMH63VN222M25X25T2	SMH35VN103M30X30T2	SMH63VN102M22X25T2
SMH400VN181M30X30T2	SMH63VN332M30X25T2	SMH16VN473M35X40T4	SMH400VN471M30X50T2
SMH160VN222M35X45T2	SMH250VN152M35X50T2	SMH100VN472M30X50T2	SMH160VN471M25X25T2
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SMH200VN391M30X20T2	SMH25VN682M22X30T2	SMH200VN182M35X45T2	SMH50VN222M22X25T2
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