

LXM Series

- Endurance with ripple current : 7,000 hours at 105°C
- Non solvent resistant type
- RoHS2 Compliant

LXM

Longer life

LXQ

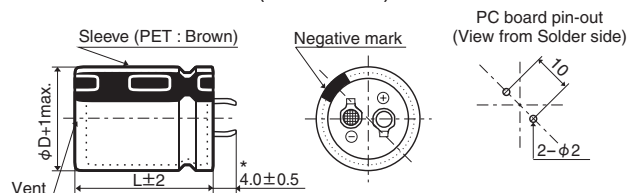


SPECIFICATIONS

Items	Characteristics		
Category	-25 to +105℃		
Temperature Range			
Rated Voltage Range	160 to 450V _{dc}		
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)		
Leakage Current	I ≤ 3/√C Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20℃ after 5 minutes)		
Dissipation Factor (tan δ)	Rated voltage (V _{ac})	160 to 400V	420 & 450V
	tan δ (Max.)	0.15	0.20 (at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{ac})	160 to 400V	420 & 450V
	Z (-25℃)/Z (+20℃)	4	8 (at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 7,000 hours at 105℃.		
	Capacitance change	≤ ±20% of the initial value	
	D.F. (tan δ)	≤250% 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℃ after exposing them for 1,000 hours at 105℃ 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	≤ ± 15% of the initial value	
	D.F. (tan δ)	≤ 150% of the initial specified value	
	Leakage current	≤ The initial specified value	

DIMENSIONS [mm]

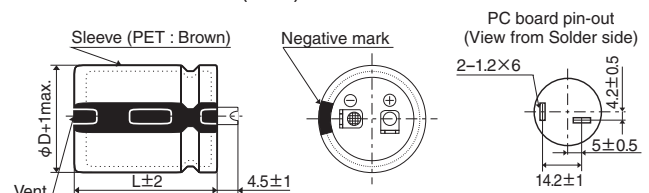
- Terminal Code : VS (φ22 to φ35) : Standard



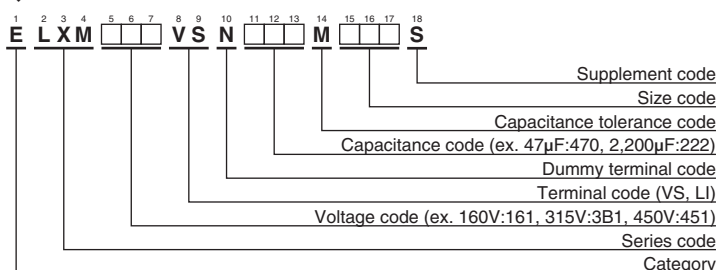
* φD=35mm : 3.5±0.5mm

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 (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.	WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.
160	330	22×25	0.15	1.11	ELXM161VSN331MP25S	220	220	22×25	0.15	0.90	ELXM221VSN221MP25S
	390	22×30	0.15	1.26	ELXM161VSN391MP30S		270	22×30	0.15	1.05	ELXM221VSN271MP30S
	470	22×30	0.15	1.39	ELXM161VSN471MP30S		330	22×35	0.15	1.19	ELXM221VSN331MP35S
	470	25.4×25	0.15	1.38	ELXM161VSN471MQ25S		330	25.4×25	0.15	1.16	ELXM221VSN331MQ25S
	560	22×35	0.15	1.55	ELXM161VSN561MP35S		390	22×40	0.15	1.33	ELXM221VSN391MP40S
	560	25.4×30	0.15	1.55	ELXM161VSN561MQ30S		390	25.4×30	0.15	1.29	ELXM221VSN391MQ30S
	680	22×40	0.15	1.75	ELXM161VSN681MP40S		470	22×45	0.15	1.49	ELXM221VSN471MP45S
	680	25.4×35	0.15	1.78	ELXM161VSN681MQ35S		470	25.4×35	0.15	1.48	ELXM221VSN471MQ35S
	680	30×25	0.15	1.74	ELXM161VSN681MR25S		470	30×25	0.15	1.45	ELXM221VSN471MR25S
	820	22×50	0.15	1.97	ELXM161VSN821MP50S		560	22×50	0.15	1.63	ELXM221VSN561MP50S
	820	25.4×40	0.15	2.01	ELXM161VSN821MQ40S		560	25.4×40	0.15	1.71	ELXM221VSN561MQ40S
	820	30×30	0.15	1.96	ELXM161VSN821MR30S		560	30×30	0.15	1.62	ELXM221VSN561MR30S
	1,000	25.4×45	0.15	2.27	ELXM161VSN102MQ45S		680	25.4×45	0.15	1.87	ELXM221VSN681MQ45S
	1,000	30×35	0.15	2.26	ELXM161VSN102MR35S		680	30×35	0.15	1.86	ELXM221VSN681MR35S
	1,200	25.4×50	0.15	2.54	ELXM161VSN122MQ50S		820	25.4×50	0.15	2.10	ELXM221VSN821MQ50S
	1,200	30×40	0.15	2.56	ELXM161VSN122MR40S		820	30×40	0.15	2.12	ELXM221VSN821MR40S
	1,200	35×30	0.15	2.52	ELXM161VSN122MA30S		820	35×30	0.15	2.08	ELXM221VSN821MA30S
	1,500	30×45	0.15	2.96	ELXM161VSN152MR45S		1,000	30×50	0.15	2.48	ELXM221VSN102MR50S
	1,500	35×35	0.15	2.89	ELXM161VSN152MA35S		1,000	35×40	0.15	2.46	ELXM221VSN102MA40S
	1,800	30×50	0.15	3.32	ELXM161VSN182MR50S		1,200	35×45	0.15	2.78	ELXM221VSN122MA45S
	1,800	35×40	0.15	3.30	ELXM161VSN182MA40S		1,500	35×50	0.15	3.20	ELXM221VSN152MA50S
2,200	35×50	0.15	3.87	ELXM161VSN222MA50S	250	180	22×25	0.15	0.82	ELXM251VSN181MP25S	
180	270	22×25	0.15	1.00		ELXM181VSN271MP25S	220	22×30	0.15	0.95	ELXM251VSN221MP30S
	330	22×30	0.15	1.16		ELXM181VSN331MP30S	270	22×35	0.15	1.08	ELXM251VSN271MP35S
	390	22×30	0.15	1.26		ELXM181VSN391MP30S	270	25.4×25	0.15	1.05	ELXM251VSN271MQ25S
	390	25.4×25	0.15	1.26		ELXM181VSN391MQ25S	330	22×40	0.15	1.22	ELXM251VSN331MP40S
	470	22×35	0.15	1.42		ELXM181VSN471MP35S	330	25.4×30	0.15	1.19	ELXM251VSN331MQ30S
	470	25.4×30	0.15	1.42		ELXM181VSN471MQ30S	390	22×45	0.15	1.36	ELXM251VSN391MP45S
	560	22×40	0.15	1.59		ELXM181VSN561MP40S	390	25.4×35	0.15	1.35	ELXM251VSN391MQ35S
	560	25.4×30	0.15	1.55		ELXM181VSN561MQ30S	390	30×25	0.15	1.32	ELXM251VSN391MR25S
	560	30×25	0.15	1.58		ELXM181VSN561MR25S	470	22×50	0.15	1.49	ELXM251VSN471MP50S
	680	22×45	0.15	1.79		ELXM181VSN681MP45S	470	25.4×40	0.15	1.52	ELXM251VSN471MQ40S
	680	25.4×35	0.15	1.78		ELXM181VSN681MQ35S	470	30×30	0.15	1.49	ELXM251VSN471MR30S
	680	30×30	0.15	1.79		ELXM181VSN681MR30S	560	25.4×45	0.15	1.70	ELXM251VSN561MQ45S
	820	25.4×40	0.15	2.01		ELXM181VSN821MQ40S	560	30×35	0.15	1.69	ELXM251VSN561MR35S
	820	30×35	0.15	2.04		ELXM181VSN821MR35S	680	25.4×50	0.15	1.91	ELXM251VSN681MQ50S
	1,000	25.4×50	0.15	2.32		ELXM181VSN102MQ50S	680	30×40	0.15	1.93	ELXM251VSN681MR40S
	1,000	30×35	0.15	2.26		ELXM181VSN102MR35S	680	35×30	0.15	1.90	ELXM251VSN681MA30S
	1,000	35×30	0.15	2.30		ELXM181VSN102MA30S	820	30×45	0.15	2.19	ELXM251VSN821MR45S
	1,200	30×45	0.15	2.65		ELXM181VSN122MR45S	820	35×35	0.15	2.13	ELXM251VSN821MA35S
	1,200	35×35	0.15	2.58		ELXM181VSN122MA35S	1,000	35×40	0.15	2.46	ELXM251VSN102MA40S
	1,500	30×50	0.15	3.03		ELXM181VSN152MR50S	1,200	35×50	0.15	2.86	ELXM251VSN122MA50S
	1,500	35×40	0.15	3.01	ELXM181VSN152MA40S	315	100	22×25	0.15	0.67	ELXM3B1VSN101MP25S
1,800	35×45	0.15	3.41	ELXM181VSN182MA45S	120		22×30	0.15	0.77	ELXM3B1VSN121MP30S	
2,200	35×50	0.15	3.87	ELXM181VSN222MA50S	150		22×30	0.15	0.86	ELXM3B1VSN151MP30S	
200	220	22×25	0.15	0.90	ELXM201VSN221MP25S		150	25.4×25	0.15	0.85	ELXM3B1VSN151MQ25S
	270	22×30	0.15	1.05	ELXM201VSN271MP30S		180	22×35	0.15	0.96	ELXM3B1VSN181MP35S
	330	22×30	0.15	1.16	ELXM201VSN331MP30S		180	25.4×30	0.15	0.96	ELXM3B1VSN181MQ30S
	330	25.4×25	0.15	1.16	ELXM201VSN331MQ25S		220	22×40	0.15	1.09	ELXM3B1VSN221MP40S
	390	22×35	0.15	1.29	ELXM201VSN391MP35S		220	25.4×30	0.15	1.06	ELXM3B1VSN221MQ30S
	390	25.4×30	0.15	1.29	ELXM201VSN391MQ30S		220	30×25	0.15	1.08	ELXM3B1VSN221MR25S
	470	22×40	0.15	1.46	ELXM201VSN471MP40S		270	22×45	0.15	1.24	ELXM3B1VSN271MP45S
	470	25.4×30	0.15	1.42	ELXM201VSN471MQ30S		270	25.4×35	0.15	1.23	ELXM3B1VSN271MQ35S
	470	30×25	0.15	1.45	ELXM201VSN471MR25S		270	30×30	0.15	1.23	ELXM3B1VSN271MR30S
	560	22×45	0.15	1.63	ELXM201VSN561MP45S		330	25.4×40	0.15	1.40	ELXM3B1VSN331MQ40S
	560	25.4×35	0.15	1.62	ELXM201VSN561MQ35S		330	30×35	0.15	1.42	ELXM3B1VSN331MR35S
	560	30×30	0.15	1.62	ELXM201VSN561MR30S		330	35×30	0.15	1.45	ELXM3B1VSN331MA30S
	680	25.4×40	0.15	1.83	ELXM201VSN681MQ40S		390	25.4×50	0.15	1.59	ELXM3B1VSN391MQ50S
	680	30×30	0.15	1.79	ELXM201VSN681MR30S		390	30×35	0.15	1.54	ELXM3B1VSN391MR35S
	820	25.4×45	0.15	2.06	ELXM201VSN821MQ45S		390	35×30	0.15	1.57	ELXM3B1VSN391MA30S
	820	30×35	0.15	2.04	ELXM201VSN821MR35S		470	30×45	0.15	1.81	ELXM3B1VSN471MR45S
	1,000	30×45	0.15	2.42	ELXM201VSN102MR45S		470	35×35	0.15	1.77	ELXM3B1VSN471MA35S
	1,000	35×30	0.15	2.30	ELXM201VSN102MA30S		560	30×50	0.15	2.03	ELXM3B1VSN561MR50S
	1,200	30×50	0.15	2.71	ELXM201VSN122MR50S	560	35×40	0.15	2.02	ELXM3B1VSN561MA40S	
	1,200	35×40	0.15	2.70	ELXM201VSN122MA40S	680	35×45	0.15	2.29	ELXM3B1VSN681MA45S	
	1,500	35×45	0.15	3.11	ELXM201VSN152MA45S	820	35×50	0.15	2.59	ELXM3B1VSN821MA50S	
1,800	35×50	0.15	3.50	ELXM201VSN182MA50S							

◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.	WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.
350	100	22 × 25	0.15	0.67	ELXM351VSN101MP25S	420	56	22 × 25	0.20	0.50	ELXM421VSN560MP25S
	120	22 × 30	0.15	0.77	ELXM351VSN121MP30S		68	22 × 30	0.20	0.58	ELXM421VSN680MP30S
	120	25.4 × 25	0.15	0.76	ELXM351VSN121MQ25S		82	22 × 30	0.20	0.63	ELXM421VSN820MP30S
	150	22 × 35	0.15	0.88	ELXM351VSN151MP35S		82	25.4 × 25	0.20	0.63	ELXM421VSN820MQ25S
	150	25.4 × 30	0.15	0.88	ELXM351VSN151MQ30S		100	22 × 35	0.20	0.72	ELXM421VSN101MP35S
	180	22 × 40	0.15	0.99	ELXM351VSN181MP40S		100	25.4 × 30	0.20	0.72	ELXM421VSN101MQ30S
	180	25.4 × 30	0.15	0.96	ELXM351VSN181MQ30S		120	22 × 40	0.20	0.81	ELXM421VSN121MP40S
	180	30 × 25	0.15	0.98	ELXM351VSN181MR25S		120	25.4 × 30	0.20	0.79	ELXM421VSN121MQ30S
	220	22 × 45	0.15	1.12	ELXM351VSN221MP45S		120	30 × 25	0.20	0.80	ELXM421VSN121MR25S
	220	25.4 × 35	0.15	1.11	ELXM351VSN221MQ35S		150	22 × 45	0.20	0.92	ELXM421VSN151MP45S
	220	30 × 30	0.15	1.11	ELXM351VSN221MR30S		150	25.4 × 35	0.20	0.92	ELXM421VSN151MQ35S
	270	25.4 × 40	0.15	1.26	ELXM351VSN271MQ40S		150	30 × 30	0.20	0.92	ELXM421VSN151MR30S
	270	30 × 35	0.15	1.28	ELXM351VSN271MR35S		180	25.4 × 40	0.20	1.03	ELXM421VSN181MQ40S
	330	25.4 × 45	0.15	1.40	ELXM351VSN331MQ45S		180	30 × 35	0.20	1.05	ELXM421VSN181MR35S
	330	30 × 35	0.15	1.42	ELXM351VSN331MR35S		220	25.4 × 50	0.20	1.19	ELXM421VSN221MP40S
	330	35 × 30	0.15	1.45	ELXM351VSN331MA30S		220	30 × 35	0.20	1.16	ELXM421VSN221MR35S
	390	30 × 40	0.15	1.60	ELXM351VSN391MR40S		220	35 × 30	0.20	1.18	ELXM421VSN221MA30S
	390	35 × 35	0.15	1.61	ELXM351VSN391MA35S		270	30 × 45	0.20	1.38	ELXM421VSN271MR45S
	470	30 × 50	0.15	1.86	ELXM351VSN471MR50S		270	35 × 35	0.20	1.34	ELXM421VSN271MA35S
	470	35 × 40	0.15	1.85	ELXM351VSN471MA40S		330	30 × 50	0.20	1.56	ELXM421VSN331MR50S
400	560	35 × 40	0.15	2.02	ELXM351VSN561MA40S	450	330	35 × 40	0.20	1.55	ELXM421VSN331MA40S
	680	35 × 50	0.15	2.36	ELXM351VSN681MA50S		390	35 × 45	0.20	1.74	ELXM421VSN391MA45S
	68	22 × 25	0.15	0.55	ELXM401VSN680MP25S		470	35 × 50	0.20	1.96	ELXM421VSN471MA50S
	82	22 × 30	0.15	0.63	ELXM401VSN820MP30S		47	22 × 25	0.20	0.46	ELXM451VSN470MP25S
	100	22 × 30	0.15	0.70	ELXM401VSN101MP30S		56	22 × 30	0.20	0.52	ELXM451VSN560MP30S
	100	25.4 × 25	0.15	0.70	ELXM401VSN101MQ25S		68	22 × 30	0.20	0.58	ELXM451VSN680MP30S
	120	22 × 35	0.15	0.79	ELXM401VSN121MP35S		68	25.4 × 25	0.20	0.58	ELXM451VSN680MQ25S
	120	25.4 × 30	0.15	0.79	ELXM401VSN121MQ30S		82	22 × 35	0.20	0.65	ELXM451VSN820MP35S
	150	22 × 40	0.15	0.90	ELXM401VSN151MP40S		82	25.4 × 30	0.20	0.65	ELXM451VSN820MQ30S
	150	25.4 × 30	0.15	0.88	ELXM401VSN151MQ30S		100	22 × 40	0.20	0.74	ELXM451VSN101MP40S
	150	30 × 25	0.15	0.90	ELXM401VSN151MR25S		100	25.4 × 30	0.20	0.72	ELXM451VSN101MQ30S
	180	22 × 45	0.15	0.99	ELXM401VSN181MP45S		100	30 × 25	0.20	0.73	ELXM451VSN101MR25S
	180	25.4 × 35	0.15	1.01	ELXM401VSN181MQ35S		120	22 × 45	0.20	0.83	ELXM451VSN121MP45S
	180	30 × 30	0.15	1.01	ELXM401VSN181MR30S		120	25.4 × 35	0.20	0.82	ELXM451VSN121MQ35S
	220	25.4 × 40	0.15	1.14	ELXM401VSN221MQ40S		120	30 × 30	0.20	0.82	ELXM451VSN121MR30S
	220	30 × 35	0.15	1.16	ELXM401VSN221MR35S		150	25.4 × 40	0.20	0.94	ELXM451VSN151MQ40S
	270	25.4 × 50	0.15	1.32	ELXM401VSN271MQ50S		150	30 × 35	0.20	0.96	ELXM451VSN151MR35S
	270	30 × 40	0.15	1.33	ELXM401VSN271MR40S		180	25.4 × 45	0.20	1.06	ELXM451VSN181MQ45S
	270	35 × 30	0.15	1.31	ELXM401VSN271MA30S		180	30 × 35	0.20	1.05	ELXM451VSN181MR35S
	330	30 × 45	0.15	1.52	ELXM401VSN331MR45S		180	35 × 30	0.20	1.07	ELXM451VSN181MA30S
	330	35 × 35	0.15	1.48	ELXM401VSN331MA35S		220	30 × 40	0.20	1.20	ELXM451VSN221MR40S
	390	30 × 50	0.15	1.69	ELXM401VSN391MR50S		220	35 × 35	0.20	1.21	ELXM451VSN221MA35S
	390	35 × 40	0.15	1.68	ELXM401VSN391MA40S		270	30 × 50	0.20	1.41	ELXM451VSN271MR50S
	470	35 × 45	0.15	1.91	ELXM401VSN471MA45S		270	35 × 40	0.20	1.40	ELXM451VSN271MA40S
	560	35 × 50	0.15	2.14	ELXM401VSN561MA50S		330	35 × 45	0.20	1.60	ELXM451VSN331MA45S
							390	35 × 50	0.20	1.79	ELXM451VSN391MA50S

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Frequency(Hz)	50	120	300	1k	10k	50k
160 to 250V _{dc}	0.81	1.00	1.17	1.32	1.45	1.50
315 to 450V _{dc}	0.77	1.00	1.16	1.30	1.41	1.43

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

Authorized Distributor

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[United Chemi-Con \(UCC\):](#)

ELXM201VSN471MR25S	ELXM401VSN181MP45S	ELXM3B1VSN271MR30S	ELXM221VSN471MQ35S
ELXM251VSN102MA40S	ELXM451VSN271MR50S	ELXM161VSN152MR45S	ELXM351VSN221MR30S
ELXM451VSN680MQ25S	ELXM3B1VSN121MP30S	ELXM181VSN561MR25S	ELXM351VSN561MA40S
ELXM421VSN121MR25S	ELXM251VSN221MP30S	ELXM451VSN101MQ30S	ELXM161VSN821MP50S
ELXM221VSN102MR50S	ELXM181VSN122MR45S	ELXM451VSN121MQ35S	ELXM251VSN471MP50S
ELXM421VSN271MR45S	ELXM351VSN101MP25S	ELXM451VSN221MA35S	ELXM401VSN391MA40S
ELXM221VSN331MQ25S	ELXM201VSN271MP30S	ELXM401VSN101MP30S	ELXM161VSN122MA30S
ELXM351VSN181MQ30S	ELXM421VSN151MR30S	ELXM221VSN561MQ40S	ELXM401VSN561MA50S
ELXM221VSN681MR35S	ELXM421VSN680MP30S	ELXM451VSN470MP25S	ELXM351VSN151MP35S
ELXM251VSN561MQ45S	ELXM3B1VSN331MR35S	ELXM351VSN391MA35S	ELXM221VSN221MP25S
ELXM161VSN331MP25S	ELXM421VSN391MA45S	ELXM451VSN151MR35S	ELXM161VSN471MP30S
ELXM161VSN222MA50S	ELXM421VSN221MA30S	ELXM251VSN471MQ40S	ELXM351VSN151MQ30S
ELXM181VSN102MA30S	ELXM351VSN331MA30S	ELXM181VSN681MP45S	ELXM401VSN391MR50S
ELXM221VSN561MR30S	ELXM451VSN331MA45S	ELXM201VSN681MQ40S	ELXM401VSN221MR35S
ELXM401VSN181MQ35S	ELXM251VSN271MP35S	ELXM421VSN181MQ40S	ELXM181VSN471MQ30S
ELXM3B1VSN151MP30S	ELXM181VSN222MA50S	ELXM3B1VSN331MA30S	ELXM201VSN182MA50S
ELXM3B1VSN681MA45S	ELXM421VSN151MP45S	ELXM181VSN102MQ50S	ELXM221VSN271MP30S
ELXM401VSN680MP25S	ELXM401VSN121MQ30S	ELXM201VSN561MP45S	ELXM201VSN331MP30S
ELXM401VSN271MR40S	ELXM351VSN391MR40S	ELXM3B1VSN391MA30S	ELXM181VSN821MQ40S
ELXM421VSN221MQ50S	ELXM161VSN122MQ50S	ELXM201VSN821MR35S	ELXM401VSN151MP40S
ELXM421VSN181MR35S	ELXM221VSN821MA30S	ELXM251VSN391MP45S	ELXM251VSN681MR40S
ELXM421VSN820MP30S	ELXM421VSN101MQ30S	ELXM201VSN391MQ30S	ELXM3B1VSN471MA35S
ELXM251VSN681MA30S	ELXM401VSN101MQ25S	ELXM221VSN391MP40S	ELXM181VSN821MR35S
ELXM161VSN561MP35S	ELXM451VSN151MQ40S	ELXM351VSN471MA40S	ELXM221VSN681MQ45S
ELXM3B1VSN151MQ25S	ELXM181VSN271MP25S	ELXM161VSN391MP30S	ELXM181VSN102MR35S