REVISION HISTORY

Revision	Description	Issue Date
Rev. 0.1	Initial Issue	May.20.2005
Rev. 0.2	Revised **PACKAGE OUTLINE DIMENSION** (TSOP II)	Apr.12.2007
Rev. 0.3	Revised **FEATURES** & **ORDERING INFORMATION** **Lead free and green package available** to **Green package available** Added packing type in **ORDERING INFORMATION** Revised V_{TERM} to V_{T1} and V_{T2} Deleted T_{SOLDER} in **ABSOLUTE MAXIMUN RATINGS** Revised **TEST CONDITION** of I_{SB1}/I_{DR}	Apr.17.2009
Rev. 0.4	Added I_{SB1}/I_{DR} values when T_A = 25℃ and T_A = 40℃ Added SL grade Deleted L grade	Jun.15.2009
Rev. 0.5	Revised **PACKAGE OUTLINE DIMENSION** in page 12	May.6.2010
Rev. 0.6	Revised **ORDERING INFORMATION** in page 13	Aug.30.2010
Rev. 1.0	Revised Notes item 1 and 2 in page 4 1. V_{IH}(max) = V_{CC} + 2.0V for pulse width less than 6ns. 2. V_{IL}(min) = V_{SS} - 2.0V for pulse width less than 6ns. Revised **ORDERING INFORMATION**	Aug.29.2013
Rev. 1.1	Deleted **WRITE CYCLE** Notes : 1. WE#,CE#, LB#, UB# must be high or CE2 must be low during all address transitions.in page 9	Jun.28.2016
Rev. 1.2	Revised **PIN DESCRIPTION** in page 1 Revised **ORDERING INFORMATION** in page 14/15/16	Feb.10.2017
Rev. 1.3	Revised **TEST CONDITION** /TYP. /MAX. of I_{CC} Revised t_{OE} in **AC ELECTRICAL CHARACTERISTICS**	May.04.2017

Lyontek Inc.

LY62L12916

Rev. 1.3

128K X 16 BIT LOW POWER CMOS SRAM

FEATURES

- Fast access time : 45/55/70ns
- Low power consumption:
  Operating current : 17/14/11mA (TYP.)
  Standby current : 1μA (TYP.) LL/SL -version
- Single 2.7V ~ 3.6V power supply
- All inputs and outputs TTL compatible
- Fully static operation
- Tri-state output
- Data byte control : LB# (DQ0 ~ DQ7)
  UB# (DQ8 ~ DQ15)
- Data retention voltage : 1.5V (MIN.)
- **Green package available**
- Package : 48-pin 12mm x 20mm TSOP I
  44-pin 400mil TSOP II
  48-ball 6mm x 8mm TFBGA

GENERAL DESCRIPTION

The LY62L12916 is a 2,097,152-bit low power CMOS static random access memory organized as 131,072 words by 16 bits. It is fabricated using very high performance, high reliability CMOS technology. Its standby current is stable within the range of operating temperature.

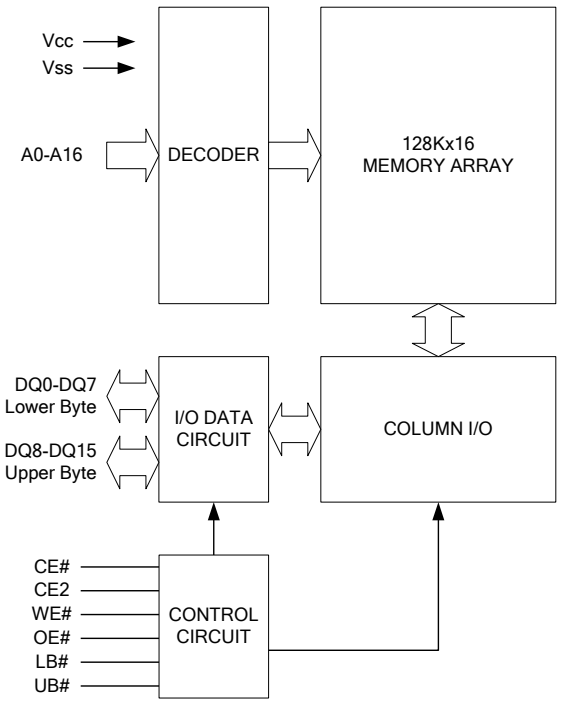
The LY62L12916 is well designed for low power application, and particularly well suited for battery back-up nonvolatile memory application.

The LY62L12916 operates from a single power supply of 2.7V ~ 3.6V and all inputs and outputs are fully TTL compatible.

PRODUCT FAMILY

Product Family	Operating Temperature	V_{CC} Range	Speed	Power Dissipation	
				Standby(I_{SB1},TYP.)	Operating(I_{CC},TYP.)
LY62L12916	0 ~ 70℃	2.7 ~ 3.6V	45/55/70ns	1μA	17/14/11mA
LY62L12916(E)	-20 ~ 80℃	2.7 ~ 3.6V	45/55/70ns	1μA	17/14/11mA
LY62L12916(I)	-40 ~ 85℃	2.7 ~ 3.6V	45/55/70ns	1μA	17/14/11mA

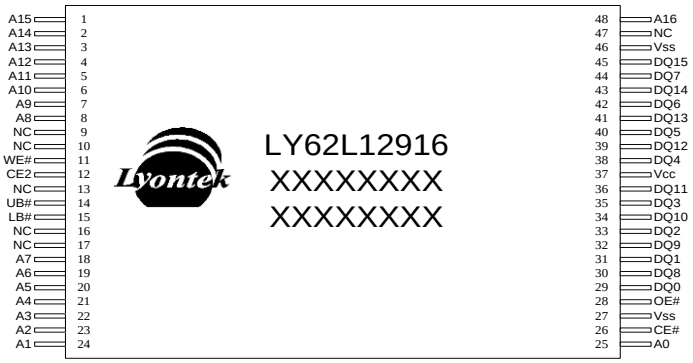
FUNCTIONAL BLOCK DIAGRAM



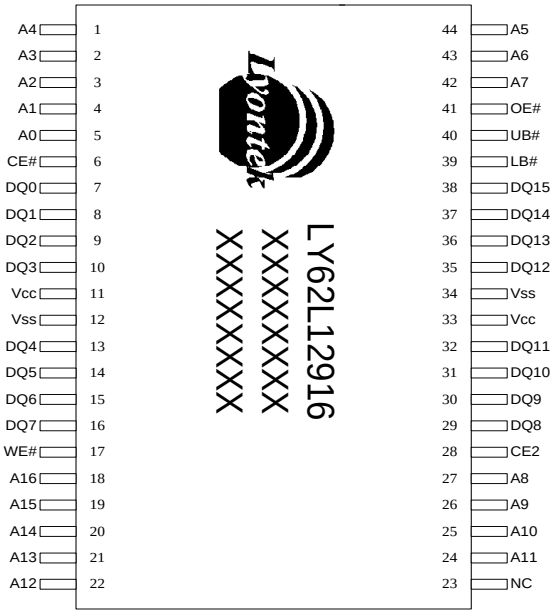
PIN DESCRIPTION

SYMBOL	DESCRIPTION
A0 - A16	Address Inputs
DQ0 - DQ15	Data Inputs/Outputs
CE#,CE2	Chip Enable Input
WE#	Write Enable Input
OE#	Output Enable Input
LB#	Lower Byte Control
UB#	Upper Byte Control
V_{CC}	Power Supply
V_{SS}	Ground
NC	No Connection

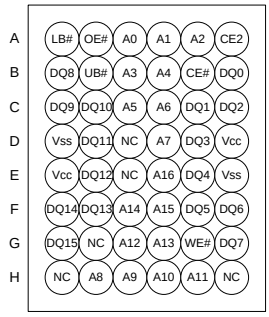
PIN CONFIGURATION



TSOP I



TSOP II



TFBGA(See through with Top View)

TFBGA(Top View)

ABSOLUTE MAXIMUN RATINGS*

PARAMETER	SYMBOL	RATING	UNIT
Voltage on V_{CC} relative to V_{SS}	V_{T1}	-0.5 to 4.6	V
Voltage on any other pin relative to V_{SS}	V_{T2}	-0.5 to V_{CC}+0.5	V
Operating Temperature	T_A	0 to 70(C grade)	℃
		-20 to 80(E grade)	
		-40 to 85(I grade)	
Storage Temperature	T_{STG}	-65 to 150	℃
Power Dissipation	P_D	1	W
DC Output Current	I_{OUT}	50	mA

*Stresses greater than those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress rating only and functional operation of the device or any other conditions above those indicated in the operational sections of this specification is not implied. Exposure to the absolute maximum rating conditions for extended period may affect device reliability.

TRUTH TABLE

MODE	CE#	CE2	OE#	WE#	LB#	UB#	I/O OPERATION		SUPPLY CURRENT
							DQ0 - DQ7	DQ8 - DQ15	
Standby	H	X	X	X	X	X	High-Z	High-Z	I_{SB},I_{SB1}
	X	L	X	X	X	X	High-Z	High-Z	
	X	X	X	X	H	H	High-Z	High-Z	
Output Disable	L	H	H	H	L	X	High-Z	High-Z	I_{CC},I_{CC1}
	L	H	H	H	X	L	High-Z	High-Z	
Read	L	H	L	H	L	H	D_{OUT}	High-Z	I_{CC},I_{CC1}
	L	H	L	H	H	L	High-Z	D_{OUT}	
	L	H	L	H	L	L	D_{OUT}	D_{OUT}	
Write	L	H	X	L	L	H	D_{IN}	High-Z	I_{CC},I_{CC1}
	L	H	X	L	H	L	High-Z	D_{IN}	
	L	H	X	L	L	L	D_{IN}	D_{IN}	

Note: H = V_{IH}, L = V_{IL}, X = Don't care.

DC ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP. *4	MAX.	UNIT
Supply Voltage	V_{CC}			2.7	3.0	3.6	V
Input High Voltage	V_{IH} *1			2.2	-	V_{CC}+0.3	V
Input Low Voltage	V_{IL} *2			- 0.2	-	0.6	V
Input Leakage Current	I_{LI}	$V_{CC} \geqq V_{IN} \geqq V_{SS}$		- 1	-	1	µA
Output Leakage Current	I_{LO}	$V_{CC} \geqq V_{OUT} \geqq V_{SS}$, Output Disabled		- 1	-	1	µA
Output High Voltage	V_{OH}	I_{OH} = -1mA		2.2	2.7	-	V
Output Low Voltage	V_{OL}	I_{OL} = 2mA		-	-	0.4	V
Average Operating Power supply Current	I_{CC}	Cycle time = MIN. CE# = 0.2V and CE2≧ V_{CC}-0.2V, $I_{I/O}$ = 0mA Other pins at 0.2V or V_{CC} - 0.2V	- 45	-	17	32	mA
			- 55	-	14	25	mA
			- 70	-	11	20	mA
	I_{CC1}	Cycle time = 1µs CE#≦ 0.2V and CE2≧ V_{CC}-0.2V, $I_{I/O}$ = 0mA, other pins at 0.2V or V_{CC}-0.2V		-	4	5	mA
Standby Power Supply Current	I_{SB}	CE# = V_{IH} or CE2 = V_{IL} Other pins at V_{IL} or V_{IH}		-	0.3	0.5	mA
	I_{SB1}	CE# ≧ V_{CC}-0.2V or CE2≦ 0.2V Other pins at 0.2V or V_{CC} - 0.2V	LL	-	1	10	µA
			LLE/LLI	-	1	20	µA
			SL*5 SLE*5 SLI*5 25℃	-	1	3	µA
			SL*5 SLE*5 SLI*5 40℃	-	1	3	µA
			SL	-	1	10	µA
			SLE/SLI	-	1	15	µA

Notes:
1. V_{IH}(max) = V_{CC} + 2.0V for pulse width less than 6ns.
2. V_{IL}(min) = V_{SS} - 2.0V for pulse width less than 6ns.
3. Over/Undershoot specifications are characterized, not 100% tested.
4. Typical values are included for reference only and are not guaranteed or tested. Typical valued are measured at V_{CC} = $V_{CC(TYP.)}$ and T_A = 25℃
5. This parameter is measured at V_{CC} = 3.0V

CAPACITANCE (T_A = 25℃, f = 1.0MHz)

PARAMETER	SYMBOL	MIN.	MAX.	UNIT
Input Capacitance	C_{IN}	-	6	pF
Input/Output Capacitance	$C_{I/O}$	-	8	pF

Note : These parameters are guaranteed by device characterization, but not production tested.

AC TEST CONDITIONS

Input Pulse Levels	0.2V to V_{CC} - 0.2V
Input Rise and Fall Times	3ns
Input and Output Timing Reference Levels	1.5V
Output Load	C_L = 30pF + 1TTL, I_{OH}/I_{OL} = -1mA/2mA

AC ELECTRICAL CHARACTERISTICS

(1) READ CYCLE

PARAMETER	SYM.	LY62L12916-45		LY62L12916-55		LY62L12916-70		UNIT
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	
Read Cycle Time	t_{RC}	45	-	55	-	70	-	ns
Address Access Time	t_{AA}	-	45	-	55	-	70	ns
Chip Enable Access Time	t_{ACE}	-	45	-	55	-	70	ns
Output Enable Access Time	t_{OE}	-	20	-	25	-	30	ns
Chip Enable to Output in Low-Z	t_{CLZ}*	10	-	10	-	10	-	ns
Output Enable to Output in Low-Z	t_{OLZ}*	5	-	5	-	5	-	ns
Chip Disable to Output in High-Z	t_{CHZ}*	-	15	-	20	-	25	ns
Output Disable to Output in High-Z	t_{OHZ}*	-	15	-	20	-	25	ns
Output Hold from Address Change	t_{OH}	10	-	10	-	10	-	ns
LB#, UB# Access Time	t_{BA}	-	45	-	55	-	70	ns
LB#, UB# to High-Z Output	t_{BHZ}*	-	20	-	25	-	30	ns
LB#, UB# to Low-Z Output	t_{BLZ}*	10	-	10	-	10	-	ns

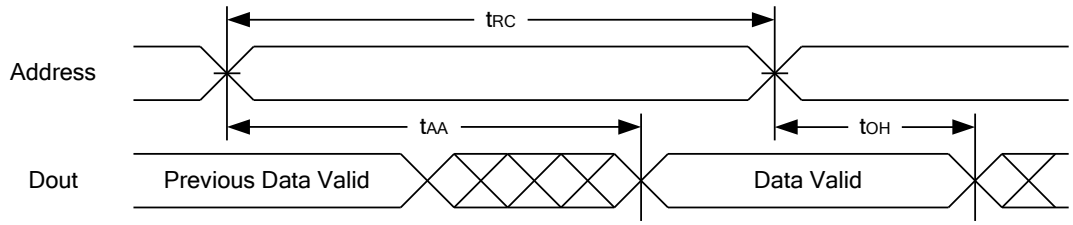
(2) WRITE CYCLE

PARAMETER	SYM.	LY62L12916-45		LY62L12916-55		LY62L12916-70		UNIT
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	
Write Cycle Time	t_{WC}	45	-	55	-	70	-	ns
Address Valid to End of Write	t_{AW}	40	-	50	-	60	-	ns
Chip Enable to End of Write	t_{CW}	40	-	50	-	60	-	ns
Address Set-up Time	t_{AS}	0	-	0	-	0	-	ns
Write Pulse Width	t_{WP}	35	-	45	-	55	-	ns
Write Recovery Time	t_{WR}	0	-	0	-	0	-	ns
Data to Write Time Overlap	t_{DW}	20	-	25	-	30	-	ns
Data Hold from End of Write Time	t_{DH}	0	-	0	-	0	-	ns
Output Active from End of Write	t_{OW}*	5	-	5	-	5	-	ns
Write to Output in High-Z	t_{WHZ}*	-	15	-	20	-	25	ns
LB#, UB# Valid to End of Write	t_{BW}	35	-	45	-	60	-	ns

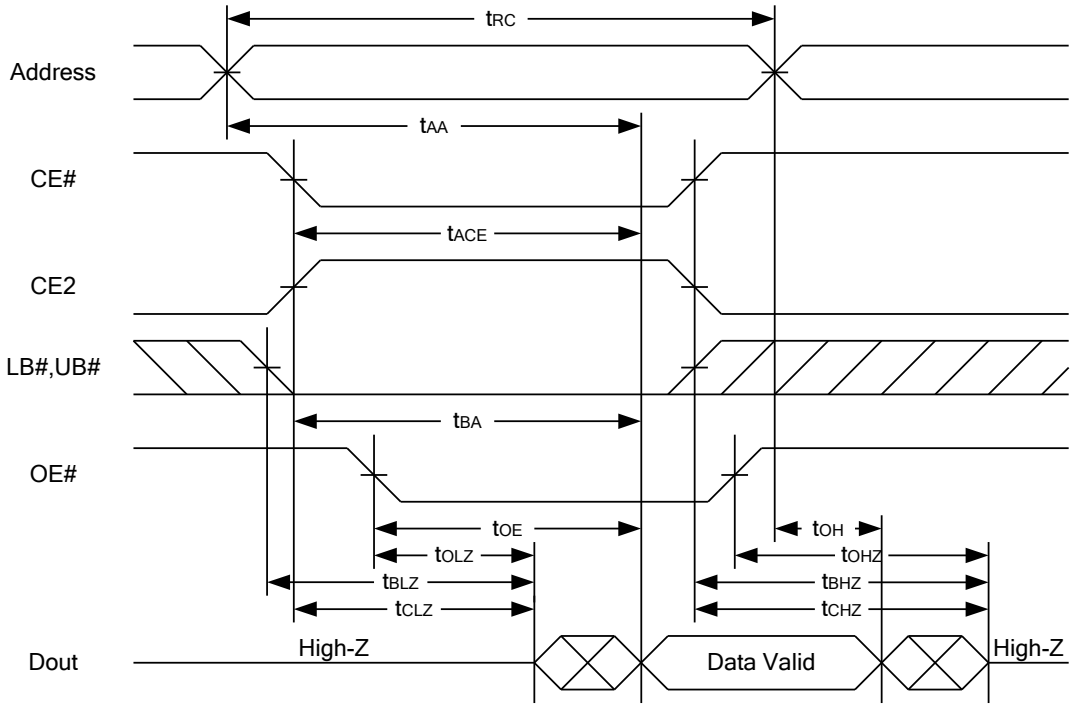
*These parameters are guaranteed by device characterization, but not production tested.

TIMING WAVEFORMS

READ CYCLE 1 (Address Controlled) (1,2)

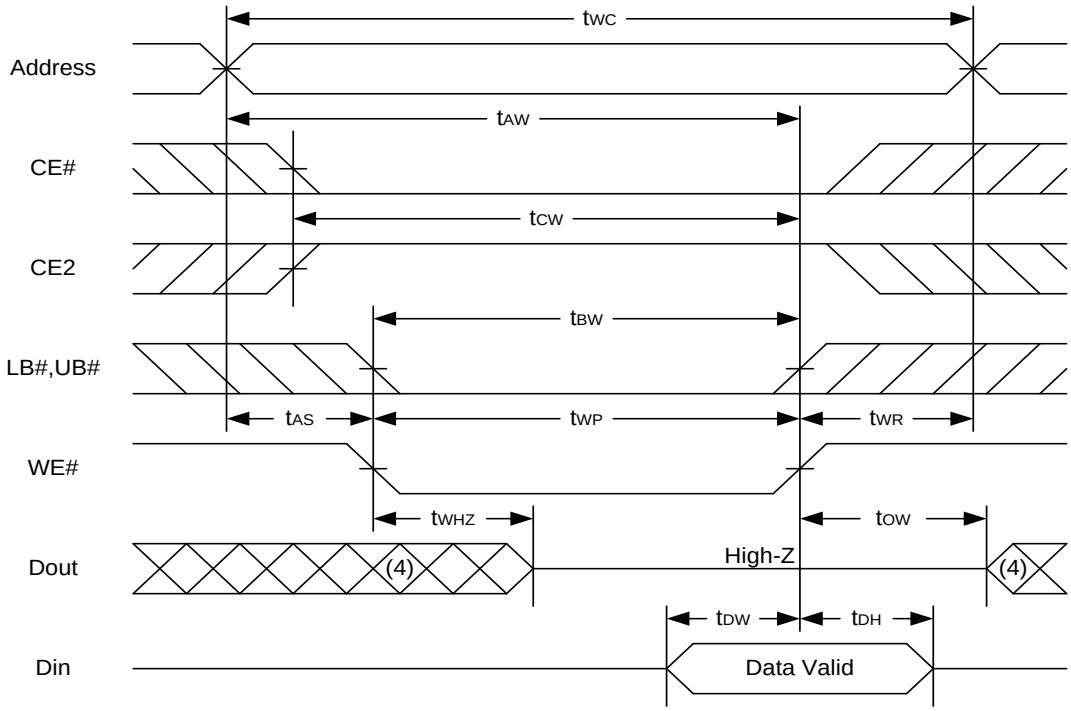


READ CYCLE 2 (CE#, CE2 and OE# Controlled) (1,3,4,5)

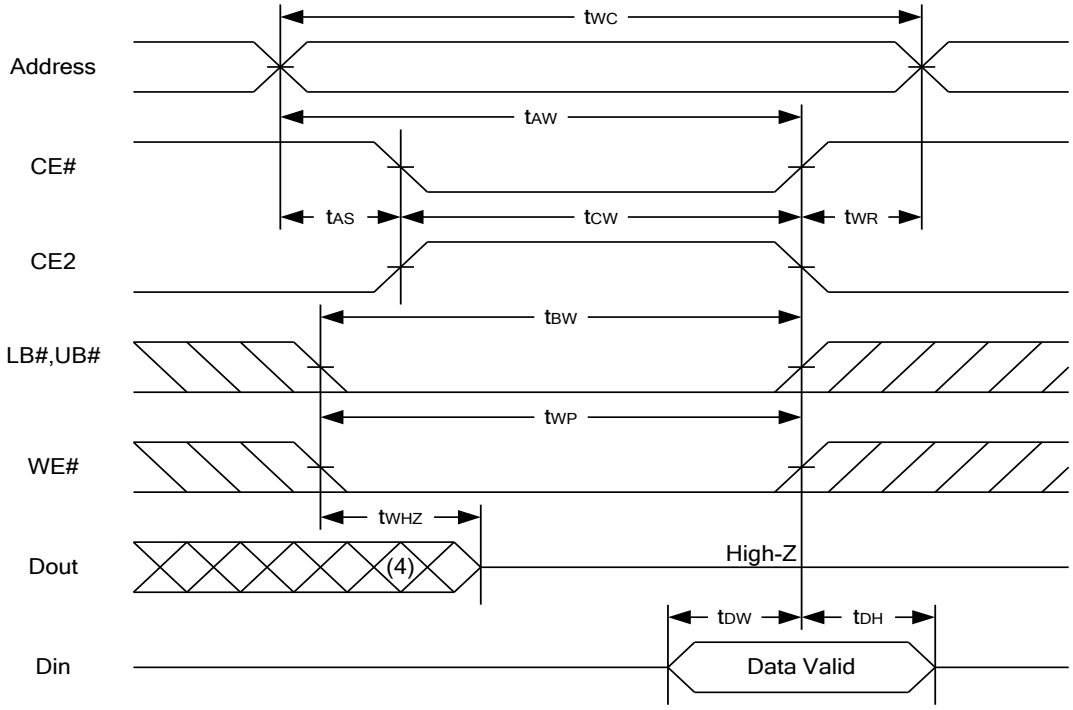


Notes :
1.WE# is high for read cycle.
2.Device is continuously selected OE# = low, CE# = low, CE2 = high, LB# or UB# = low.
3.Address must be valid prior to or coincident with CE# = low, CE2 = high, LB# or UB# = low transition; otherwise t_{AA} is the limiting parameter.
4.t_{CLZ}, t_{BLZ}, t_{OLZ}, t_{CHZ}, t_{BHZ} and t_{OHZ} are specified with C_L = 5pF. Transition is measured ±500mV from steady state.
5.At any given temperature and voltage condition, t_{CHZ} is less than t_{CLZ} , t_{BHZ} is less than t_{BLZ}, t_{OHZ} is less than t_{OLZ}.

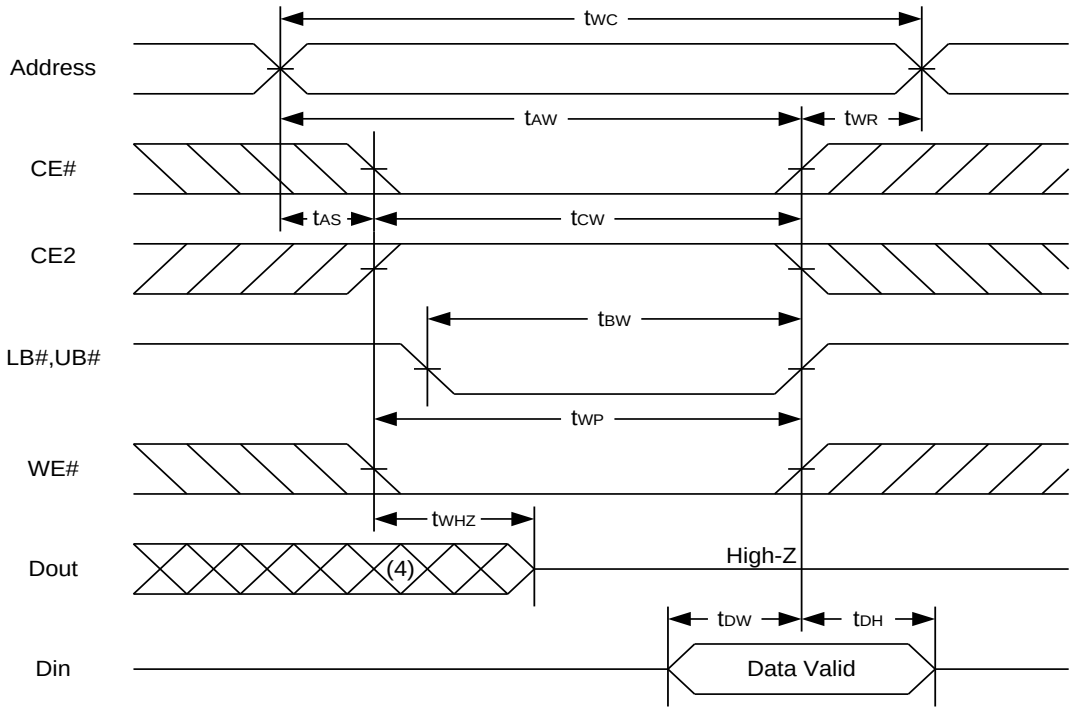
WRITE CYCLE 1 (WE# Controlled) (1,2,4,5)



WRITE CYCLE 2 (CE#, CE2 Controlled) (1,4,5)



WRITE CYCLE 3 (LB#,UB# Controlled) (1,4,5)



Notes :
1.A write occurs during the overlap of a low CE#, high CE2, low WE#, LB# or UB# = low.
2.During a WE# controlled write cycle with OE# low, t_{WP} must be greater than $t_{WHZ} + t_{DW}$ to allow the drivers to turn off and data to be placed on the bus.
3.During this period, I/O pins are in the output state, and input signals must not be applied.
4.If the CE#, LB#, UB# low transition and CE2 high transition occurs simultaneously with or after WE# low transition, the outputs remain in a high impedance state.
5.t_{OW} and t_{WHZ} are specified with C_L = 5pF. Transition is measured ±500mV from steady state.

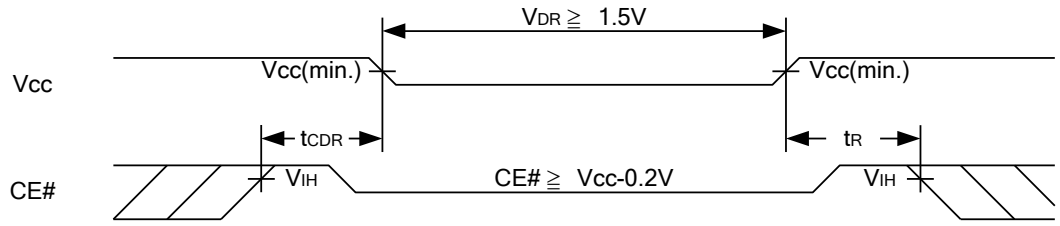
DATA RETENTION CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITION			MIN.	TYP.	MAX.	UNIT
V_{CC} for Data Retention	V_{DR}	CE# ≧ V_{CC} - 0.2V or CE2 ≦ 0.2V			1.5	-	3.6	V
Data Retention Current	I_{DR}	V_{CC} = 1.5V CE# ≧ V_{CC} - 0.2V or CE2 ≦ 0.2V Others at 0.2V or V_{CC}-0.2V	LL		-	0.5	5	µA
			LLE/LLI		-	0.5	10	µA
			SL SLE SLI	25℃	-	0.5	3	µA
				40℃	-	0.5	3	µA
			SL		-	0.5	5	µA
			SLE/SLI		-	0.5	10	µA
Chip Disable to Data Retention Time	t_{CDR}	See Data Retention Waveforms (below)			0	-	-	ns
Recovery Time	t_R				t_{RC}*	-	-	ns

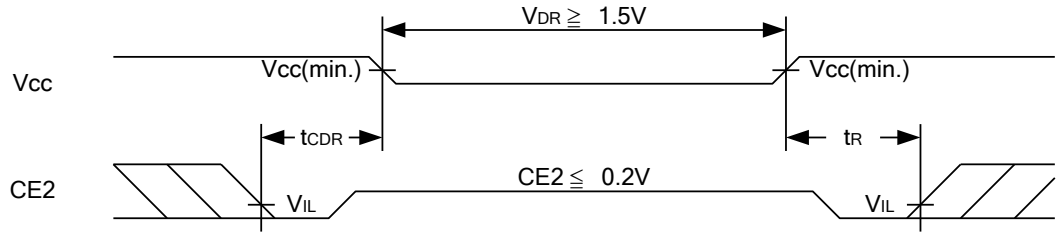
t_{RC}* = Read Cycle Time

DATA RETENTION WAVEFORM

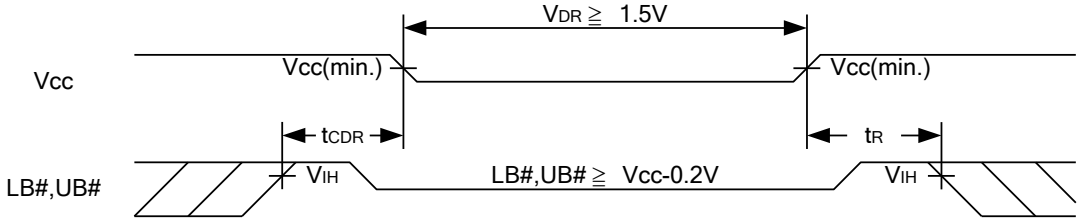
Low V_{CC} Data Retention Waveform (1) (CE# controlled)



Low V_{CC} Data Retention Waveform (2) (CE2 controlled)

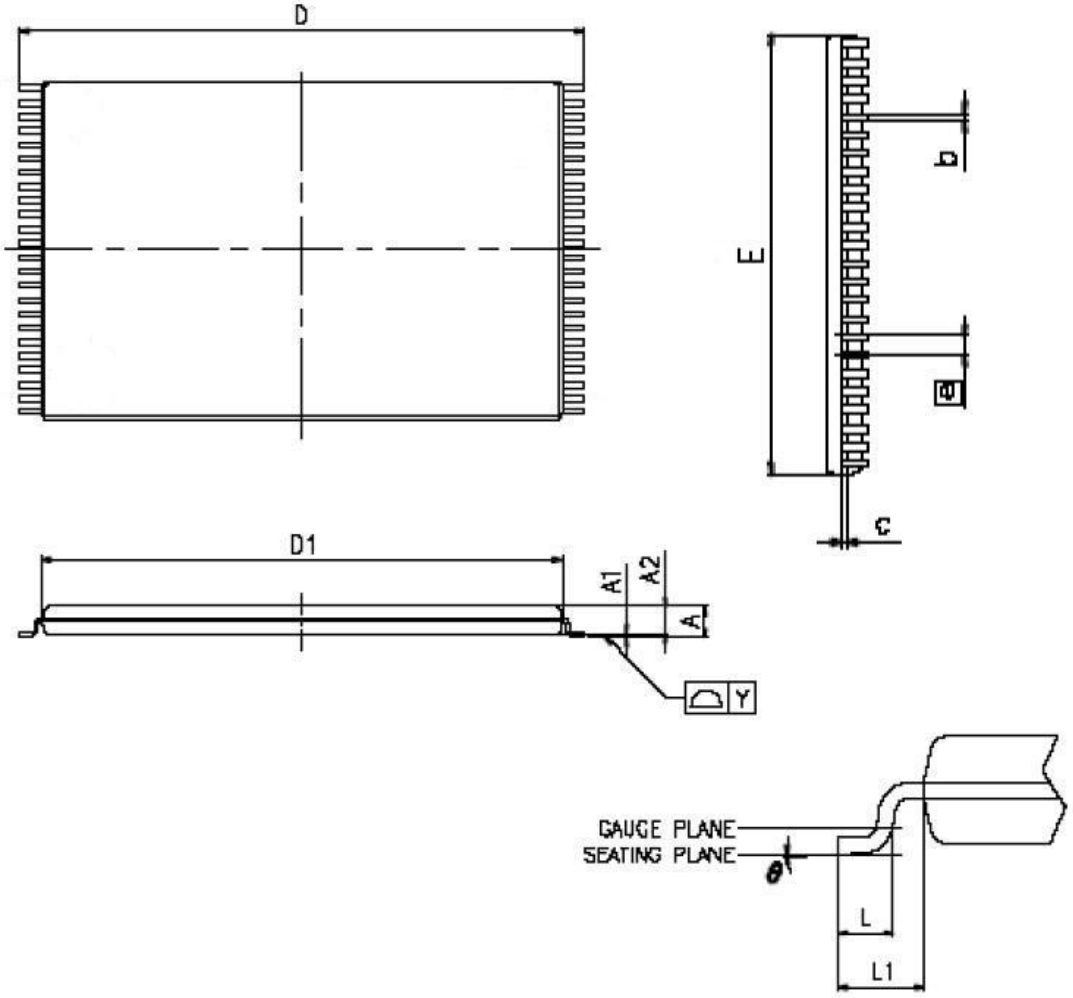


Low V_{CC} Data Retention Waveform (3) (LB#, UB# controlled)



PACKAGE OUTLINE DIMENSION

48-pin 12mm x 20mm TSOP I Package Outline Dimension

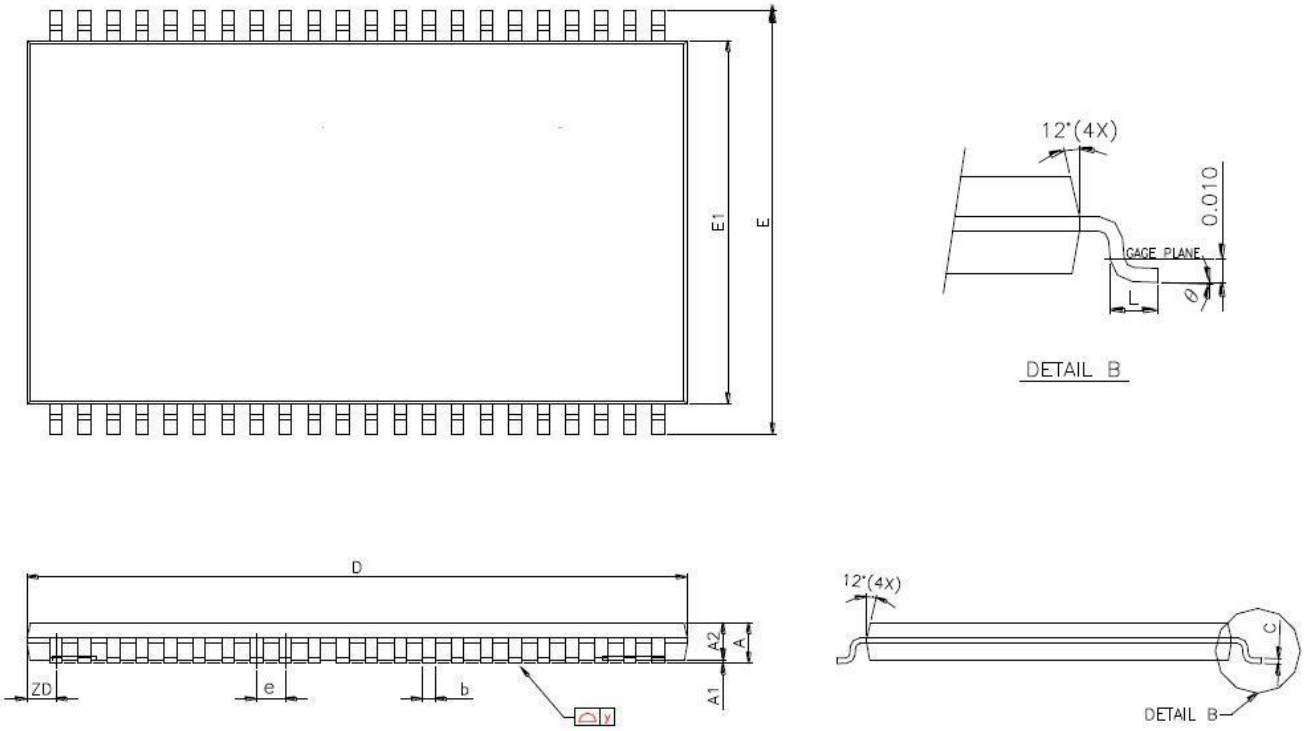


VARIATIONS (ALL DIMENSIONS SHOWN IN MM)

SYMBOLS	MIN.	NOM.	MAX
A	–	–	1.20
A1	0.05	–	0.15
A2	0.95	1.00	1.05
b	0.17	0.22	0.27
c	0.10	–	0.21
D	19.80	20.00	20.20
D1	18.30	18.40	18.50
E	11.90	12.00	12.10
e	0.50 BASIC		
L	0.50	0.60	0.70
L1	–	0.80	–
Y	–	–	0.10
θ	0°	–	5°

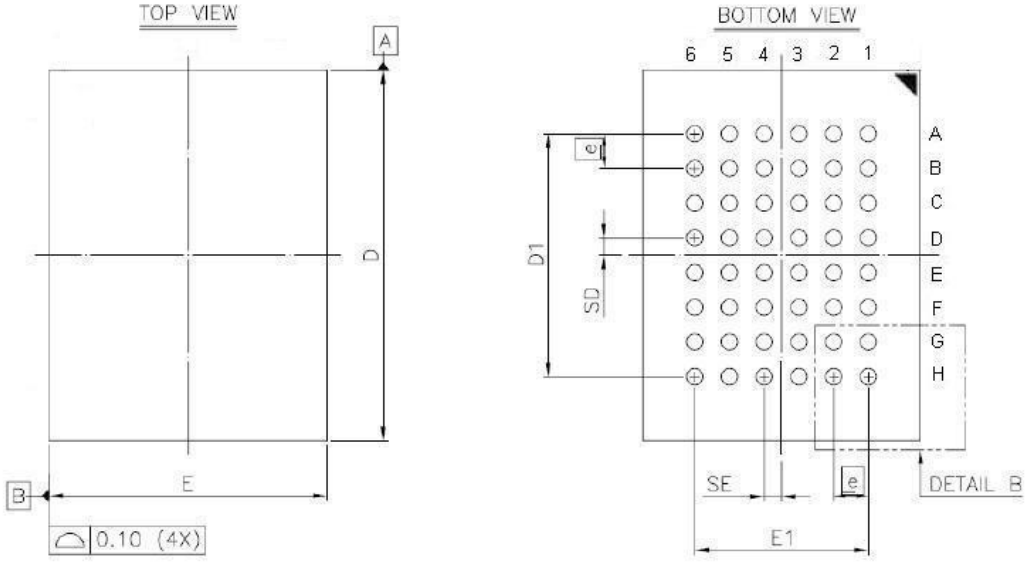
NOTES:
1 JEDEC OUTLINE : MO-142 DD
2.PROFILE TOLERANCE ZONES FOR D1 AND E DO NOT INCLUDE MOLD PROTRUSION. ALLOWABLE MOLD PROTRUSION ON E IS 0.15mm PER SIDE AND ON D1 IS 0.25mm PER SIDE.
3.DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08mm TOTAL IN EXCESS OF THE b DIMENSION AT MAXIMUM MATERIAL CONDITION DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT.

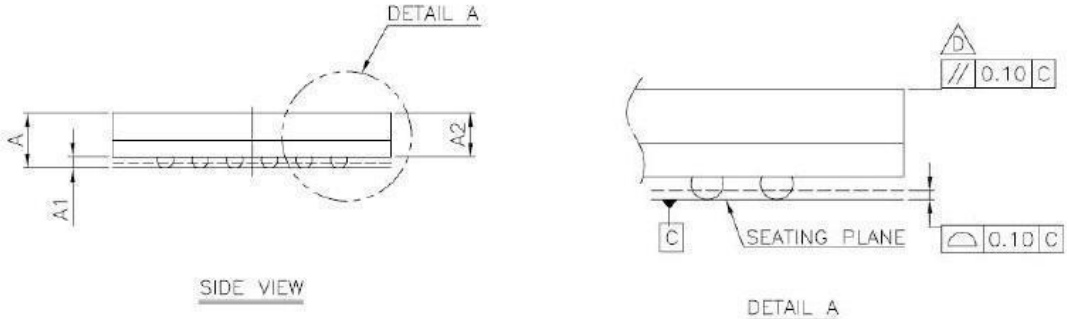
44-pin 400 mil TSOP Ⅱ Package Outline Dimension



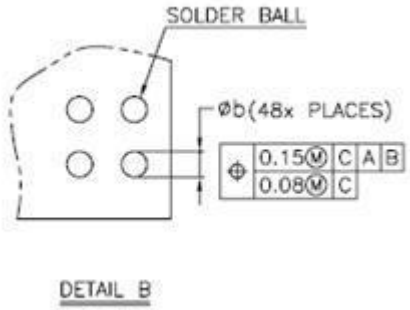
SYMBOLS	DIMENSIONS IN MILLMETERS			DIMENSIONS IN MILS		
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
A	-	-	1.20	-	-	47.2
A1	0.05	0.10	0.15	2.0	3.9	5.9
A2	0.95	1.00	1.05	37.4	39.4	41.3
b	0.30	-	0.45	11.8	-	17.7
c	0.12	-	0.21	4.7	-	8.3
D	18.212	18.415	18.618	717	725	733
E	11.506	11.760	12.014	453	463	473
E1	9.957	10.160	10.363	392	400	408
e	-	0.800	-	-	31.5	-
L	0.40	0.50	0.60	15.7	19.7	23.6
ZD	-	0.805	-	-	31.7	-
y	-	-	0.076	-	-	3
θ	0°	3°	6°	0°	3°	6°

48-ball 6mm × 8mm TFBGA Package Outline Dimension





SYM.	DIMENSION (mm)			DIMENSION (inch)		
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
A	—	—	1.20	—	—	0.047
A1	0.20	0.25	0.30	0.008	0.010	0.012
A2	—	—	0.94	—	—	0.037
b	0.30	0.35	0.40	0.012	0.014	0.016
D	7.95	8.00	8.05	0.313	0.315	0.317
D1	5.25 BSC			0.207 BSC		
E	5.95	6.00	6.05	0.234	0.236	0.238
E1	3.75 BSC			0.148 BSC		
SE	0.375 TYP			0.015 TYP		
SD	0.375 TYP			0.015 TYP		
e	0.75 BSC			0.030 BSC		



NOTE:
1. CONTROLLING DIMENSION : MILLIMETER.
2. REFERENCE DOCUMENT : JEDEC MO-207.

ORDERING INFORMATION

Package Type	Access Time (Speed)(ns)	Power Type	Temperature Range(℃)	Packing Type	Lyontek Item No.
48-pin (12mm x 20mm) TSOP I	45	Special Ultra Low Power	0℃~70℃	Tray	LY62L12916LL-45SL
				Tape Reel	LY62L12916LL-45SLT
			-20℃~80℃	Tray	LY62L12916LL-45SLE
				Tape Reel	LY62L12916LL-45SLET
			-40℃~85℃	Tray	LY62L12916LL-45SLI
				Tape Reel	LY62L12916LL-45SLIT
		Ultra Low Power	0℃~70℃	Tray	LY62L12916LL-45LL
				Tape Reel	LY62L12916LL-45LLT
			-20℃~80℃	Tray	LY62L12916LL-45LLE
				Tape Reel	LY62L12916LL-45LLET
			-40℃~85℃	Tray	LY62L12916LL-45LLI
				Tape Reel	LY62L12916LL-45LLIT
	55	Special Ultra Low Power	0℃~70℃	Tray	LY62L12916LL-55SL
				Tape Reel	LY62L12916LL-55SLT
			-20℃~80℃	Tray	LY62L12916LL-55SLE
				Tape Reel	LY62L12916LL-55SLET
			-40℃~85℃	Tray	LY62L12916LL-55SLI
				Tape Reel	LY62L12916LL-55SLIT
		Ultra Low Power	0℃~70℃	Tray	LY62L12916LL-55LL
				Tape Reel	LY62L12916LL-55LLT
			-20℃~80℃	Tray	LY62L12916LL-55LLE
				Tape Reel	LY62L12916LL-55LLET
			-40℃~85℃	Tray	LY62L12916LL-55LLI
				Tape Reel	LY62L12916LL-55LLIT
	70	Special Ultra Low Power	0℃~70℃	Tray	LY62L12916LL-70SL
				Tape Reel	LY62L12916LL-70SLT
			-20℃~80℃	Tray	LY62L12916LL-70SLE
				Tape Reel	LY62L12916LL-70SLET
			-40℃~85℃	Tray	LY62L12916LL-70SLI
				Tape Reel	LY62L12916LL-70SLIT
		Ultra Low Power	0℃~70℃	Tray	LY62L12916LL-70LL
				Tape Reel	LY62L12916LL-70LLT
			-20℃~80℃	Tray	LY62L12916LL-70LLE
				Tape Reel	LY62L12916LL-70LLET
			-40℃~85℃	Tray	LY62L12916LL-70LLI
				Tape Reel	LY62L12916LL-70LLIT

ORDERING INFORMATION

Package Type	Access Time (Speed)(ns)	Power Type	Temperature Range(℃)	Packing Type	Lyontek Item No.
44-pin (400mil) TSOP II	45	Special Ultra Low Power	0℃~70℃	Tray	LY62L12916ML-45SL
				Tape Reel	LY62L12916ML-45SLT
			-20℃~80℃	Tray	LY62L12916ML-45SLE
				Tape Reel	LY62L12916ML-45SLET
			-40℃~85℃	Tray	LY62L12916ML-45SLI
				Tape Reel	LY62L12916ML-45SLIT
		Ultra Low Power	0℃~70℃	Tray	LY62L12916ML-45LL
				Tape Reel	LY62L12916ML-45LLT
			-20℃~80℃	Tray	LY62L12916ML-45LLE
				Tape Reel	LY62L12916ML-45LLET
			-40℃~85℃	Tray	LY62L12916ML-45LLI
				Tape Reel	LY62L12916ML-45LLIT
	55	Special Ultra Low Power	0℃~70℃	Tray	LY62L12916ML-55SL
				Tape Reel	LY62L12916ML-55SLT
			-20℃~80℃	Tray	LY62L12916ML-55SLE
				Tape Reel	LY62L12916ML-55SLET
			-40℃~85℃	Tray	LY62L12916ML-55SLI
				Tape Reel	LY62L12916ML-55SLIT
		Ultra Low Power	0℃~70℃	Tray	LY62L12916ML-55LL
				Tape Reel	LY62L12916ML-55LLT
			-20℃~80℃	Tray	LY62L12916ML-55LLE
				Tape Reel	LY62L12916ML-55LLET
			-40℃~85℃	Tray	LY62L12916ML-55LLI
				Tape Reel	LY62L12916ML-55LLIT
	70	Special Ultra Low Power	0℃~70℃	Tray	LY62L12916ML-70SL
				Tape Reel	LY62L12916ML-70SLT
			-20℃~80℃	Tray	LY62L12916ML-70SLE
				Tape Reel	LY62L12916ML-70SLET
			-40℃~85℃	Tray	LY62L12916ML-70SLI
				Tape Reel	LY62L12916ML-70SLIT
		Ultra Low Power	0℃~70℃	Tray	LY62L12916ML-70LL
				Tape Reel	LY62L12916ML-70LLT
			-20℃~80℃	Tray	LY62L12916ML-70LLE
				Tape Reel	LY62L12916ML-70LLET
			-40℃~85℃	Tray	LY62L12916ML-70LLI
				Tape Reel	LY62L12916ML-70LLIT

ORDERING INFORMATION

Package Type	Access Time (Speed)(ns)	Power Type	Temperature Range(℃)	Packing Type	Lyontek Item No.
48-ball (6mm x 8mm) TFBGA	45	Special Ultra Low Power	0℃~70℃	Tray	LY62L12916GL-45SL
				Tape Reel	LY62L12916GL-45SLT
			-20℃~80℃	Tray	LY62L12916GL-45SLE
				Tape Reel	LY62L12916GL-45SLET
			-40℃~85℃	Tray	LY62L12916GL-45SLI
				Tape Reel	LY62L12916GL-45SLIT
		Ultra Low Power	0℃~70℃	Tray	LY62L12916GL-45LL
				Tape Reel	LY62L12916GL-45LLT
			-20℃~80℃	Tray	LY62L12916GL-45LLE
				Tape Reel	LY62L12916GL-45LLET
			-40℃~85℃	Tray	LY62L12916GL-45LLI
				Tape Reel	LY62L12916GL-45LLIT
	55	Special Ultra Low Power	0℃~70℃	Tray	LY62L12916GL-55SL
				Tape Reel	LY62L12916GL-55SLT
			-20℃~80℃	Tray	LY62L12916GL-55SLE
				Tape Reel	LY62L12916GL-55SLET
			-40℃~85℃	Tray	LY62L12916GL-55SLI
				Tape Reel	LY62L12916GL-55SLIT
		Ultra Low Power	0℃~70℃	Tray	LY62L12916GL-55LL
				Tape Reel	LY62L12916GL-55LLT
			-20℃~80℃	Tray	LY62L12916GL-55LLE
				Tape Reel	LY62L12916GL-55LLET
			-40℃~85℃	Tray	LY62L12916GL-55LLI
				Tape Reel	LY62L12916GL-55LLIT
	70	Special Ultra Low Power	0℃~70℃	Tray	LY62L12916GL-70SL
				Tape Reel	LY62L12916GL-70SLT
			-20℃~80℃	Tray	LY62L12916GL-70SLE
				Tape Reel	LY62L12916GL-70SLET
			-40℃~85℃	Tray	LY62L12916GL-70SLI
				Tape Reel	LY62L12916GL-70SLIT
		Ultra Low Power	0℃~70℃	Tray	LY62L12916GL-70LL
				Tape Reel	LY62L12916GL-70LLT
			-20℃~80℃	Tray	LY62L12916GL-70LLE
				Tape Reel	LY62L12916GL-70LLET
			-40℃~85℃	Tray	LY62L12916GL-70LLI
				Tape Reel	LY62L12916GL-70LLIT

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