3-Wire Serial EEPROM 1K, 2K and 4Kbit (8-bit or 16-bit wide)

FEATURES

- □ Standard Voltage and Low Voltage Operation:
 - FT93C46/56/66: V_{CC} = 2.5V to 5.5V
 - FT93C46A/56A/66A: $V_{CC} = 1.8V$ to 5.5V
- □ User Selectable Internal Organization:
 - FT93C46: 128 x 8 or 64 x 16
 - FT93C56: 256 x 8 or 128 x 16
 - FT93C66: 512 x 8 or 256 x 16
- □ 2 MHz Clock Rate (5V) Compatibility.
- □ Industry Standard 3-wire Serial Interface.
- □ Self-Timed ERASE/WRITE Cycles (5ms max including auto-erase).
- □ Automatic ERAL before WRAL.
- □ Sequential READ Function.
- □ High Reliability: Typical 1 Million Erase/Write Cycle Endurance.
- □ 100 Years Data Retention.
- □ Industrial Temperature Range (-40° C to 85° C).
- Standard 8-pin DIP/SOP/TSSOP/DFN Pb-free Packages.

DESCRIPTION

The FT93C46/56/66 series are 1024/2048/4096 bits of serial Electrical Erasable and Programmable Read Only Memory, commonly known as EEPROM. They are organized as 64/128/256 words of 16 bits each when the ORG pin is connected to VCC (or unconnected) and 128/256/512 words of 8 bits (1 byte) each when the ORG pin is tied to ground. The devices are fabricated with proprietary advanced CMOS process for low power and low voltage applications. These devices are available in standard 8-lead DIP, 8-lead JEDEC SOP, 8-lead TSSOP and 8-lead DFN packages. Our extended V_{CC} range (1.8V to 5.5V) devices enables wide spectrum of applications.

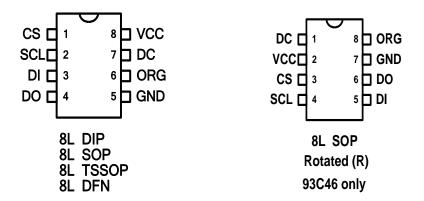
The FT93C46/56/66 is enabled through the Chip Select pin (CS), and accessed via a 3-wire serial interface consisting of Data Input (DI), Data Output (DO), and Shift Clock (SCL). Upon receiving a READ instruction at DI, the address is decoded and the data is clocked out serially on the data output pin DO. The WRITE cycle is completely self-timed and no separate ERASE cycle is required before WRITE. The WRITE cycle is only enabled when the part is in the ERASE/WRITE ENABLE state. Once a device begins its self-timed program procedure, the data out pin (DO) can indicate the READY/BUSY status by rising chip select (CS).

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PIN CONFIGURATION

Pin Name	Pin Function
CS	Chip Select
SCL	Serial Clock
DI	Serial Data Input
DO	Serial Data Output
ORG	Internal Organization
DC	Don't Connect
VCC	Power Supply
GND	Ground

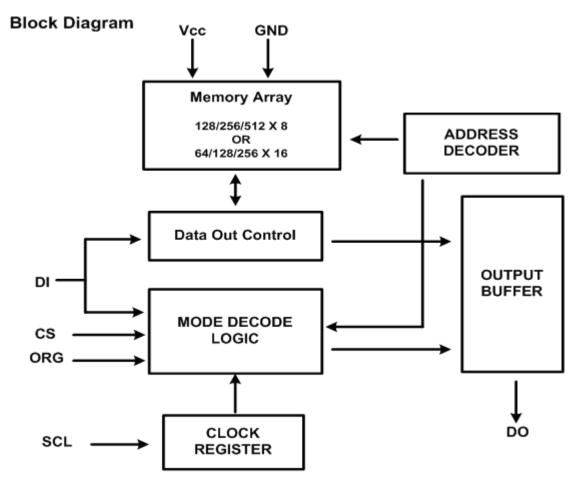
All these packaging types come in Pb-free certified.



ABSOLUTE MAXIMUM RATINGS

Industrial operating temperature:	-40°C to 85°C
Storage temperature:	-50°C to 125°C
Input voltage on any pin relative to ground:	-0.3V to V _{CC} + 0.3V
Maximum voltage:	8V

* Stresses exceed those listed under "Absolute Maximum Rating" may cause permanent damage to the device. Functional operation of the device at conditions beyond those listed in the specification is not guaranteed. Prolonged exposure to extreme conditions may affect device reliability or functionality.



PIN DESCRIPTIONS

(A) SERIAL CLOCK (SCL)

The rising edge of this SCL input is to latch data into the EEPROM device while the rising edge of this clock is to clock data out of the EEPROM device.

(B) CHIP SELECT (CS)

This is the chip select input signal for the serial EEPROM device. .

(C) SERIAL DATA INPUT (DI)

This is data input signal for the serial device.

(D) SERIAL DATA OUTPUT (DO)

This is data output signal for the serial device.

(E) INTERNAL ORGANIZATION (ORG)

This is internal organization input signal for the serial EEPROM device. When the ORG pin is connected to VCC or unconnected the EEPROM is organized as 64/128/256 word of 16 bits each and when ORG pin is connected to ground the EEPROM is organized as 128/256/512 byte of 8 bits each. Typically, these signals are hardwired to either V_{IH} or V_{IL} . If left unconnected, they are internally recognized as V_{IH} .

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MEMORY ORGANIZATION

The FT93C46/56/66 memory is organized either as bytes (x8) or as words (x16). If Internal Organization (ORG) is unconnected (or connected to VCC) the words (x16) organization is selected; When Internal Organization is connected to ground the bytes (x8) organization is selected.

Instruction	SB	Ор	Addr	ess	D	ata	Comments		
Instruction	30	Code	x 8	x 16	x 8	x 16	Comments		
READ	1	10	A ₆ - A ₀	A ₅ - A ₀			Reads data stored in memory, at specified address.		
EWEN	1	00	11xxxxx	11xxxx			Write enable must precede all programming modes.		
EWDS	1	00	00xxxxx	00xxxx			Disables all programming instructions.		
ERASE	1	11	A ₆ - A ₀	A ₅ - A ₀			Erase memory location $A_n - A_0$.		
WRITE	1	01	A ₆ - A ₀	A ₅ - A ₀	D ₇ - D ₀	D ₁₅ - D ₀	Writes memory location $A_n - A_0$.		
ERAL	1	00	10xxxxx	10xxxx			Erases all memory locations.		
WRAL	1	00	01xxxxx	01xxxx	D ₇ - D ₀	D ₁₅ - D ₀	Writes all memory locations.		

INSTRUCTION SET for the FT93C46

INSTRUCTION SET for the FT93C56 and FT93C66

Instruction	SB	Ор	Addr	ess	Da	ata	Comments		
instruction	30	Code	x 8	x 16	x 8	x 16	Comments		
READ	1	10	A ₈ - A ₀	A ₇ - A ₀			Reads data stored in memory, at specified address.		
EWEN	1	00	11xxxxxxx	11xxxxxx			Write enable must precede all programming modes.		
EWDS	1	00	00xxxxxxx	00xxxxxx			Disables all programming instructions.		
ERASE	1	11	A ₈ - A ₀	A ₇ - A ₀			Erase memory location $A_n - A_0$.		
WRITE	1	01	A ₈ - A ₀	A ₇ - A ₀	D ₇ - D ₀	D ₁₅ - D ₀	Writes memory location $A_n - A_0$.		
ERAL	1	00	10xxxxxxx	10xxxxxx			Erases all memory locations.		
WRAL	1	00	01xxxxxxx	01xxxxxx	D ₇ - D ₀	D ₁₅ - D ₀	Writes all memory locations.		

(A) START BIT (SB)

Each instruction is preceded by a rising edge on Chip Select (CS) with Serial Clock (SCL) being held Low.

(B) OPERATION CODE (OP-CODE)

Two op-code bits, read on Serial Data Input (DI) during the rising edge of Serial Clock (SCL).

(C) ADDRESS

The address bits of the byte or word that is to be accessed. For the FT93C46, the address is made up of 6 bits for the x16 organization or 7 bits for x8 organization. For the FT93C56, the address is made up of 7 bits for the x16 organization or 8 bits for x8 organization. For the FT93C66, the address is made up of 8 bits for the x16 organization or 9 bits for x8 organization.

(D) DATA

The data bits of the byte or word that is to be accessed. For the FT93C46/56/66, the data is made up of 16 bits (word) for the x16 organization or 8 bits (byte) for x8 organization.

INSTRUCTION SETS DESCRIPTION

(A) READ

The Read (READ) instruction contains the Address code for the memory location to be read. After the instruction and address are decoded, data from the selected memory location is available at the serial output pin DO. Output data changes are synchronized with the rising edges of serial clock SK. It should be noted that when a dummy bit (logic "0") precedes the 8- or 16-bit data output string.

(B) ERASE/WRITE ENABLE

To assure data integrity, the part automatically goes into the Erase/Write Disable (EWDS) state when power is first applied. An Erase/Write Enable (EWEN) instruction must be executed first before any programming instructions can be carried out. Please note that once in the Erase/Write Enable state, programming remains enabled until an Erase/Write Disable (EWDS) instruction is executed or V_{CC} power is removed from the part.

(C) ERASE/WRITE DISABLE

To protect against accidental data disturb, the Erase/Write Disable (EWDS) instruction disables all programming modes and should be executed after all programming operations. The operation of the READ instruction is independent of both the EWEN and EWDS instructions and can be executed at any time.

(D) ERASE

The Erase (ERASE) instruction programs all bits in the specified memory location to the logical "1" state. The self-timed erase cycle starts once the ERASE instruction and address are decoded. The DO pin outputs the READY/BUSY status of the part if CS is brought high after being kept low for a minimum of 250 ns (t_{cs}). A logic "1" at pin DO indicates that the selected memory location has been erased, and the part is ready for another instruction.

(E) WRITE

The Write (WRITE) instruction contains the 8 or 16 bits of data to be written into the specified memory location. The self-timed programming cycle, t_{WP} , starts after the last bit of data is received at serial data input pin DI. The DO pin outputs the READY/BUSY status of the part if CS is brought high after being kept low for a minimum of 250 ns (t_{CS}). A logic "0" at DO indicates that programming is still in progress. A logic "1" indicates that the memory location at the specified address has been written with the data pattern contained in the instruction and the part is ready for further instructions. A READY/BUSY status cannot be obtained if the CS is brought high after the end of the self-timed programming cycle, t_{WP} .

(F) ERASE ALL

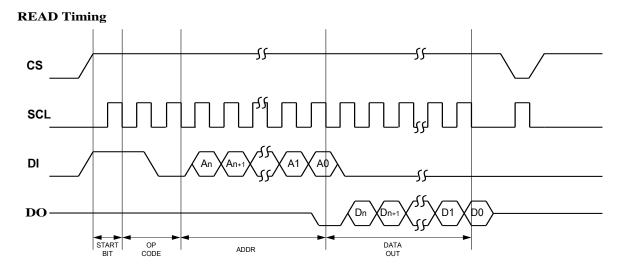
The Erase All (ERAL) instruction programs every bit in the memory array to the logic "1" state and is primarily used for testing purposes. The DO pin outputs the READY/BUSY status of the part if CS is brought high after being kept low for a minimum of 250 ns (t_{CS}). The ERAL instruction is valid only at $V_{CC} = 5.0V \pm 10\%$.

(G) WRITE ALL

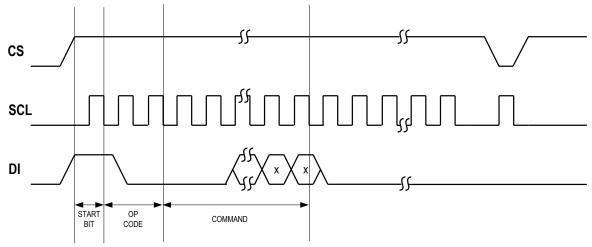
The Write All (WRAL) instruction programs all memory locations with the data patterns specified in the instruction. The DO pin outputs the READY/BUSY status of the part if CS is brought high after being kept low for a minimum of 250 ns (t_{cs}). The WRAL instruction is valid only at V_{CC} = 5.0V ± 10%.

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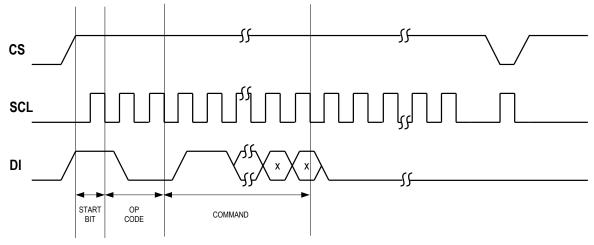
Timing Diagrams



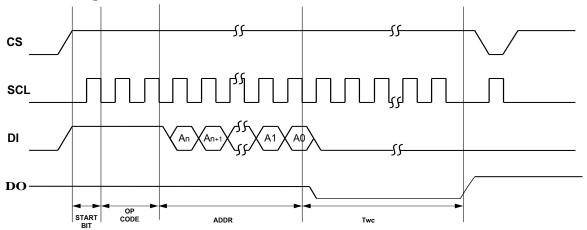
EWDS Timing



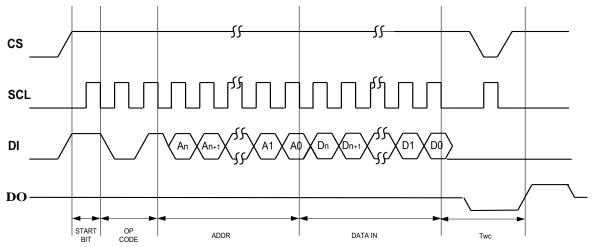
EWEN Timing

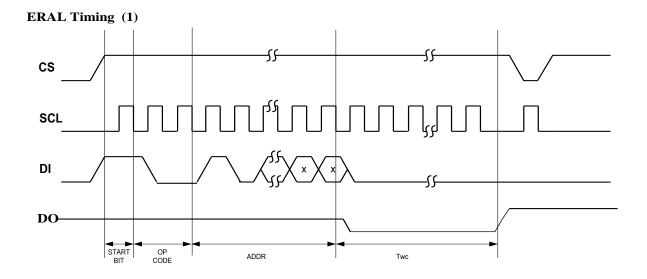






WRITE Timing



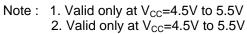


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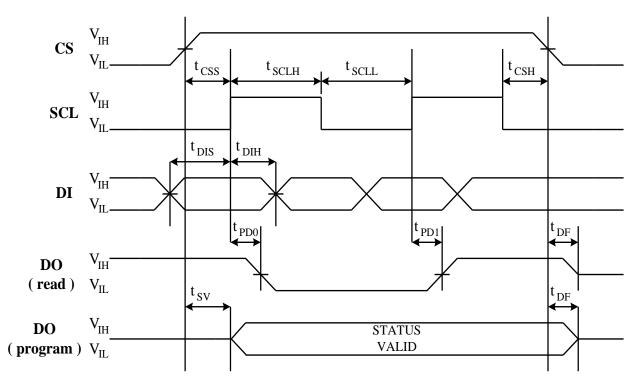
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WRAL Timing (2) ∽ ∽ CS SCL Dn D0 DI D1 Х х DO START BIT OP CODE Twc ADDR DATA IN



Synchronous Data Timing



AC CHARACTERISTICS

Applicable over recommended operating range from: $T_{AI} = -40^{\circ}C$ to $+85^{\circ}C$, $V_{CC} = +1.8V$ to +5.5V, $T_{AC} = 0^{\circ}C$ to $+70^{\circ}C$, $V_{CC} = +1.8V$ to +5.5V (unless otherwise noted).

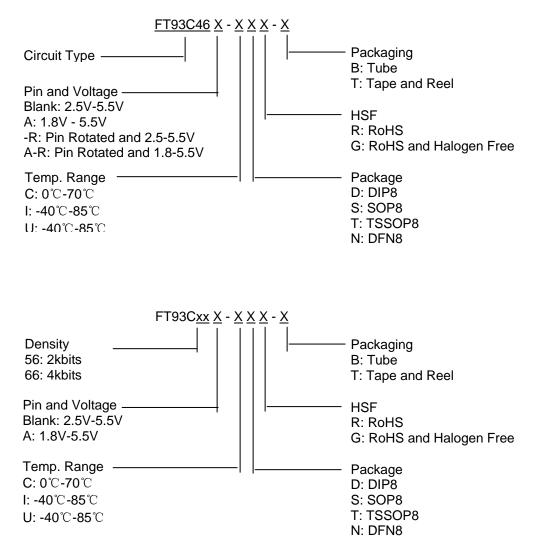
Symbol	Parameter	Test Co	ondition	Min	Тур	Max	Units
f _{SCL}	SCL Clock Frequency	$\begin{array}{l} 4.5 \mathrm{V} \leq \mathrm{V_{cc}} \leq 5.5 \mathrm{V} \\ 2.7 \mathrm{V} \leq \mathrm{V_{cc}} \leq 5.5 \mathrm{V} \\ 1.8 \mathrm{V} \leq \mathrm{V_{cc}} \leq 5.5 \mathrm{V} \end{array}$		0 0 0		2 1 0.25	MHz
t _{SCLH}	SCL High Time	$4.5V \le V_{CC} \le 5.5V$ $2.7V \le V_{CC} \le 5.5V$ $1.8V \le V_{CC} \le 5.5V$		250 250 1000			ns
t _{SCLL}	SCL Low Time	$4.5V \le V_{CC} \le 5.5V$ $2.7V \le V_{CC} \le 5.5V$ $1.8V \le V_{CC} \le 5.5V$		250 250 1000			ns
t _{cs}	Minimum CS Low Time	$4.5V \le V_{cc} \le 5.5V$ $2.7V \le V_{cc} \le 5.5V$ $1.8V \le V_{cc} \le 5.5V$		250 250 1000			ns
t _{CSS}	CS Setup Time	Relative to SCL	$4.5V \le V_{CC} \le 5.5V$ $2.7V \le V_{CC} \le 5.5V$ $1.8V \le V_{CC} \le 5.5V$	50 50 200			ns
t _{DIS}	DI Setup Time	Relative to SCL	$\begin{array}{l} 4.5 V \leq V_{CC} \leq 5.5 V \\ 2.7 V \leq V_{CC} \leq 5.5 V \\ 1.8 V \leq V_{CC} \leq 5.5 V \end{array}$	100 100 400			ns
t _{CSH}	CS Hold Time	Relative to SCL		0			ns
t _{DIH}	DI Hold Time	Relative to SCL	$\begin{array}{l} 4.5 \mathrm{V} \leq \mathrm{V}_{\mathrm{CC}} \leq 5.5 \mathrm{V} \\ 2.7 \mathrm{V} \leq \mathrm{V}_{\mathrm{CC}} \leq 5.5 \mathrm{V} \\ 1.8 \mathrm{V} \leq \mathrm{V}_{\mathrm{CC}} \leq 5.5 \mathrm{V} \end{array}$	100 100 400			ns
t _{PD1}	Output Delay to '1'	AC Test	$4.5V \le V_{cc} \le 5.5V$ $2.7V \le V_{cc} \le 5.5V$ $1.8V \le V_{cc} \le 5.5V$			250 250 1000	ns
t _{PD0}	Output Delay to '0'	AC Test	$4.5V \le V_{cc} \le 5.5V$ $2.7V \le V_{cc} \le 5.5V$ $1.8V \le V_{cc} \le 5.5V$			250 250 1000	ns
t _{SV}	CS to Status Valid	AC Test	$4.5V \le V_{CC} \le 5.5V$ $2.7V \le V_{CC} \le 5.5V$ $1.8V \le V_{CC} \le 5.5V$			250 250 1000	ns
t _{DF}	CS to DO in High Impedance	AC Test CS = V _{IL}	$4.5V \le V_{cc} \le 5.5V$ $2.7V \le V_{cc} \le 5.5V$ $1.8V \le V_{cc} \le 5.5V$			100 100 400	ns
t _{WC}	Write Cycle Time		$4.5V \le V_{\rm CC} \le 5.5V$		3	10	ms

DC CHARACTERISTICS

Applicable over recommended operating range from $T_A = -40^{\circ}C$ to + 85°C, $V_{CC} = As$ Specified, CL = 1 TTL Gate and 100 pF (unless otherwise noted).

Symbol	Parameter	Test Condition		Min	Тур	Max	Unit
V _{CC1}	Supply Voltage			1.8		5.5	V
V _{CC2}	Supply Voltage			2.5		5.5	V
V _{CC3}	Supply Voltage			2.7		5.5	V
V_{CC4}	Supply Voltage			4.5		5.5	V
1	Supply Current	V _{CC} = 5.0V	READ at 1.0 MHz		0.5	2.0	mA
I _{CC}		V _{CC} = 5.0 V	WRITE at 1.0 MHz		0.5	2.0	mA
I _{SB1}	Standby Current	$V_{CC} = 1.8V$	CS = 0V		< 0.1		μA
I _{SB2}	Standby Current	$V_{CC} = 2.5V$	CS = 0V		< 1.5		μA
I _{SB3}	Standby Current	$V_{CC} = 2.7V$	CS = 0V		< 1.5	1.5	μΑ
I _{SB4}	Standby Current	$V_{CC} = 5.0V$	CS = 0V		< 1.5	1.5	μΑ
I _{IL}	Input Leakage	$V_{in} = 0V$	to V _{CC}		0.1	1.0	μΑ
I _{OL}	Output Leakage	$V_{in} = 0V$	to V _{CC}		0.1	1.0	μA
V _{IL1} ⁽¹⁾ V _{IH1} ⁽¹⁾	Input Low Voltage Input High Voltage	4.5V ≤V _{CC}	≤ 5.5V	-0.6 2.0		0.8 V _{CC} + 1	V
$\begin{array}{c} V_{\text{IL2}}{}^{(1)}_{\text{IH2}} \\ V_{\text{IH2}}{}^{(1)} \end{array}$	Input Low Voltage Input High Voltage	1.8V ≤V _{CC}	≤2.7V	-0.6 V _{CC} x 0.7		V _{CC} x 0.3 V _{CC} + 1	V
V _{OL1}	Output Low Voltage		I _{OL} = 2.1 mA			0.4	V
V _{OH1}	Output High Voltage	4.5V ≤V _{CC} ≤ 5.5V	I _{OH} = -0.4 mA	2.4			V
V _{OL12}	Output Low Voltage		l _{OL} = 0.15 mA			0.2	V
V _{OH2}	Output High Voltage	1.8V ≤V _{CC} ≤ 2.7V	I _{OH} = -100 µА	V _{CC} - 0.2			V

ORDER CODE:



ORDER INFORMATION

Density	Package	Temperature Range	Pin and Voltage	HSF	Packaging	Ordering Code	
			1.8V-5.5V	RoHS	Tube	FT93C46A-CDR-B	
			1.60-5.50	Green	Tube	FT93C46A-CDG-B	
			Pin Rotated	RoHS	Tube	FT93C46A-R-CDR-B	
		0℃-70℃	1.8V-5.5V	Green	Tube	FT93C46A-R-CDG-B	
		00-700	2.5V-5.5V	RoHS	Tube	FT93C46-CDR-B	
			2.50-5.50	Green	Tube	FT93C46-CDG-B	
			Pin Rotated	RoHS	Tube	FT93C46-R-CDR-B	
			2.5V-5.5V	Green	Tube	FT93C46-R-CDG-B	
				RoHS	Tube	FT93C46A-IDR-B	
			1.8V-5.5V	KUI IS	Tube	FT93C46A-UDR-B	
			1.00-3.50	Green	Tube	FT93C46A-IDG-B	
	DIP8		Gleen	Gleen	Tube	FT93C46A-UDG-B	
	DIFO	אוע		RoHS	Tube	FT93C46A-R-IDR-B	
			Pin Rotated	Rono	Tube	FT93C46A-R-UDR-B	
			1.8V-5.5V	Green	Tube	FT93C46A-R-IDG-B	
1kbits		-40℃-85℃		Oleen	Tube	FT93C46A-R-UDG-B	
TROITS		- 40 C- 03 C	2.5V-5.5V	RoHS	Tube	FT93C46-IDR-B	
				2 5\/-5 5\/		Tube	FT93C46-UDR-B
				Green	Tube	FT93C46-IDG-B	
				Groon	Tube	FT93C46-UDG-B	
			RoHS Tube	Tubo	FT93C46-R-IDR-B		
			Pin Rotated	NU115	Tube	FT93C46-R-UDR-B	
			2.5V-5.5V	Green	Tube	FT93C46-R-IDG-B	
				Oreen	Tube	FT93C46-R-UDG-B	
				RoHS	Tube	FT93C46A-CSR-B	
			1.8V-5.5V	Rono	Tape and Reel	FT93C46A-CSR-T	
	SOP8 0°C-70		1.00 0.00	Green	Tube	FT93C46A-CSG-B	
		0°℃-70° ℃		Oreen	Tape and Reel	FT93C46A-CSG-T	
		00-700		RoHS	Tube	FT93C46A-R-CSR-B	
			Pin Rotated	Nono	Tape and Reel	FT93C46A-R-CSR-T	
			1.8V-5.5V	Green	Tube	FT93C46A-R-CSG-B	
				Ciccii	Tape and Reel	FT93C46A-R-CSG-T	



				5.110	Tube	FT93C46-CSR-B
				RoHS	Tape and Reel	FT93C46-CSR-T
			2.5V-5.5V	0	Tube	FT93C46-CSG-B
				Green	Tape and Reel	FT93C46-CSG-T
		0℃ -70 ℃		Dallo	Tube	FT93C46-R-CSR-B
			Pin	RoHS	Tape and Reel	FT93C46-R-CSR-T
			Rotated 2.5V-5.5V	0	Tube	FT93C46-R-CSG-B
				Green	Tape and Reel	FT93C46-R-CSG-T
					Tuba	FT93C46A-ISR-B
				RoHS	Tube	FT93C46A-USR-B
				ROHS	Tapa and Deal	FT93C46A-ISR-T
		1.8V-5.5V		Tape and Reel	FT93C46A-USR-T	
			1.80-5.50		Tube	FT93C46A-ISG-B
				Green	Tube	FT93C46A-USG-B
	SOP8			Gleen	Tape and Reel	FT93C46A-ISG-T
1kbits					Tape and Reel	FT93C46A-USG-T
TKDIIS	3000				Tube	FT93C46A-R-ISR-B
				RoHS	Tube	FT93C46A-R-USR-B
			Pin Rotated	Rons	Tape and Reel	FT93C46A-R-ISR-T
		-40℃-85℃ ′			Tape and Reel	FT93C46A-R-USR-T
		-40 C-85 C	1.8V-5.5V		Tube	FT93C46A-R-ISG-B
				Green	Tube	FT93C46A-R-USG-B
				Gleen	Tape and Reel	FT93C46A-R-ISG-T
					Tape and Reel	FT93C46A-R-USG-T
					Tube	FT93C46-ISR-B
			RoHS	Tube	FT93C46-USR-B	
			Rono	Tape and Reel	FT93C46-ISR-T	
			2.5V-5.5V		Tape and Reel	FT93C46-USR-T
			2.0 0 -0.0 0		Tube	FT93C46-ISG-B
				Green		FT93C46-USG-B
				Gieen	Tape and Reel	FT93C46-ISG-T
					Tape and Neel	FT93C46-USG-T



					Tube	FT93C46-R-ISR-B
				RoHS		FT93C46-R-USR-B
			Pin		Tape and Reel	FT93C46-R-ISR-T
	SOP8	-40℃-85℃ ′	Rotated			FT93C46-R-USR-T
			2.5V-5.5V		Tube	FT93C46-R-ISG-B
				Green		FT93C46-R-USG-B
					Tape and Reel	FT93C46-R-ISG-T
						FT93C46-R-USG-T
				RoHS	Tube	FT93C46A-CTR-B
			1.8V-5.5V		Tape and Reel	FT93C46A-CTR-T
				Green	Tube	FT93C46A-CTG-B
					Tape and Reel	FT93C46A-CTG-T
			Pin	RoHS	Tube	FT93C46A-R-CTR-B
			Rotated 1.8V-5.5V		Tape and Reel	FT93C46A-R-CTR-T
	0℃-70	0℃-70℃		Green	Tube	FT93C46A-R-CTG-B
				Gleen	Tape and Reel	FT93C46A-R-CTG-T
			2.5V-5.5V	RoHS	Tube	FT93C46-CTR-B
			2.50-5.50		Tape and Reel	FT93C46-CTG-T
1kbits				RoHS	Tube	FT93C46-R-CTR-B
			Pin Rotated	NUI IS	Tape and Reel	FT93C46-R-CTR-T
			2.5V-5.5V	Green	Tube	FT93C46-R-CTG-B
				Gleen	Tape and Reel	FT93C46-R-CTG-T
	TSSOP8				Tube	FT93C46A-ITR-B
				RoHS	Tube	FT93C46A-UTR-B
					Tapa and Daal	FT93C46A-ITR-T
			1.8V-5.5V		Tape and Reel	FT93C46A-UTR-T
			1.00-5.50		Tube	FT93C46A-ITG-B
				Croon	Tube	FT93C46A-UTG-B
	-40℃-85℃			Green	Tapa and Daal	FT93C46A-ITG-T
					Tape and Reel	FT93C46A-UTG-T
		-40 (-85 (Tuba	FT93C46A-R-ITR-B
				DeLIC	Tube	FT93C46A-R-UTR-B
				RoHS	Tapa and Deal	FT93C46A-R-ITR-T
			Pin		Tape and Reel	FT93C46A-R-UTR-T
			Rotated 1.8V-5.5V		Tuba	FT93C46A-R-ITG-B
				0	Tube	FT93C46A-R-UTG-B
				Green	Tana and Dard	FT93C46A-R-ITG-T
					Tape and Reel	FT93C46A-R-UTG-T



					Tuba	FT93C46-ITR-B
				RoHS	Tube	FT93C46-UTR-B
				RUNS	Topo and Pool	FT93C46-ITR-T
			2.5V-5.5V		Tape and Reel	FT93C46-UTR-T
			2.50-5.50		Tube	FT93C46-ITG-B
				Green	Tube	FT93C46-UTG-B
	TSSOP8 -40°C-85°C			Gleen	Tape and Reel	FT93C46-ITG-T
		40°C 95°C			Tape and Reel	FT93C46-UTG-T
		-40 C-85 C			Tube	FT93C46-R-ITR-B
1kbite				RoHS	Tube	FT93C46-R-UTR-B
TKDIIS			Pin Rotated 2.5V-5.5V	KUI IS	Tape and Reel	FT93C46-R-ITR-T
						FT93C46-R-UTR-T
					Tube	FT93C46-R-ITG-B
				Green	Tube	FT93C46-R-UTG-B
				Gleen	Tape and Reel	FT93C46-R-ITG-T
					Tape and Reel	FT93C46-R-UTG-T
	DFN8 -40℃-85℃		1.8V-5.5V	RoHS	Tape and Reel	FT93C46A-UNR-T
		1.00-0.00	Green	Tape and Reel	FT93C46A-UNG-T	
	DEINO	-40 C-00 C	2.5V-5.5V	RoHS	Tape and Reel	FT93C46-UNR-T
			2.00-0.00	Green	Tape and Reel	FT93C46-UNG-T



Preliminary 93C46/A, 56/A, 66/A

Density	Package	Temperature Range	Pin and Voltage	HSF	Packaging	Ordering Code		
			1.8V-5.5V	RoHS	Tube	FT93C56A-CDR-B		
		0℃-70℃		Green	Tube	FT93C56A-CDG-B		
		00-700	2.5V-5.5V	RoHS	Tube	FT93C56-CDR-B		
			2.30-3.30	Green	Tube	FT93C56-CDG-B		
				RoHS	Tube	FT93C56A-IDR-B		
	DIP8		1.8V-5.5V	RUHS	Pdur	FT93C56A-UDR-B		
	DIPO		1.00-0.00	Croon	Tuba	FT93C56A-IDG-B		
				Green	Tube	FT93C56A-UDG-B		
		-40℃-85℃		DallC	Tube	FT93C56-IDR-B		
				RoHS	Tube	FT93C56-UDR-B		
		2.5V-5.5V G	Croon	Tuba	FT93C56-IDG-B			
				Green	Tube	FT93C56-UDG-B		
				Dallo	Tube	FT93C56A-CSR-B		
		0℃-70℃		RoHS	Tape and Reel	FT93C56A-CSR-T		
			1.8V-5.5V	0	Tube	FT93C56A-CSG-B		
				Green	Tape and Reel	FT93C56A-CSG-T		
				DallC	Tube	FT93C56-CSR-B		
2kbits			2.5V-5.5V	RoHS	Tape and Reel	FT93C56-CSR-T		
ZKDIIS			2.30-3.30	Green	Tube	FT93C56-CSG-B		
				Green	Tape and Reel	FT93C56-CSG-T		
					Tube	FT93C56A-ISR-B		
					RoHS	Dolle		FT93C56A-USR-B
				копо	Tape and Reel	FT93C56A-ISR-T		
	SOP8	-40℃-85℃	1.8V-5.5V			FT93C56A-USR-T		
	30P6	-40 C-65 C	1.00-0.00		Tube	FT93C56A-ISG-B		
				Green	edu i	FT93C56A-USG-B		
				Green	Topo and Dool	FT93C56A-ISG-T		
					Tape and Reel	FT93C56A-USG-T		
	-40℃-85℃				Tube	FT93C56-ISR-B		
				Dalle	eduli	FT93C56-USR-B		
			-85℃ 2.5V-5.5V	RoHS	Tana ID I	FT93C56-ISR-T		
					Tape and Reel	FT93C56-USR-T		
		-40 C-85 C			Tuba	FT93C56-ISG-B		
				0.000	Tube	FT93C56-USG-B		
				Green	Topo and Dask	FT93C56-ISG-T		
					Tape and Reel	FT93C56-USG-T		



2kbits FTSSOP8 $-40\degree-85\degree$ $1.8V-5.5V$ $RoHS$ Tube FT93C56A-CTR-B $0\degree-70\degree$ $1.8V-5.5V$ $RoHS$ $Tube$ FT93C56A-CTG-B $0\degree-70\degree$ $Tube$ $FT93C56A-CTG-B$ $Tape and Reel$ $FT93C56A-CTG-T$ $2.5V-5.5V$ $RoHS$ $Tube$ $FT93C56A-CTG-T$ $Tape and Reel$ $FT93C56-CTG-TB$ $2.5V-5.5V$ $RoHS$ $Tube$ $FT93C56A-CTG-TB$ $Tape and Reel$ $FT93C56A-CTG-TB$ 786^{-1} $Tube$ $FT93C56A-CTG-TB$ $Tape and Reel$ $FT93C56A-CTG-TB$ 786^{-1} $Tube$ $FT93C56A-CTG-TB$ $Tape and Reel$ $FT93C56A-CTG-TB$ 786^{-1} $Tube$ $FT93C56A-TTR-B$ $FT93C56A-TTR-B$ $FT93C56A-TTR-B$ 786^{-1} $Tape and Reel$ $FT93C56A-TTR-T$ $FT93C56A-TTR-B$ $FT93C56A-TTG-B$ $-40\degree-8-55\%$ $RoHS$ $Tube$ $FT93C56A-TTG-B$ $FT93C56A-TTG-T$ $-40\degree-8-5\%$ $RoHS$ $Tube$ $FT93C56A-TTG-T$ $FT93C56A-TTG-T$ $-40\degree-8-5\%$ $FT93C56A-TTG-T$ $FT9$							
$2 k b i ts \\ 2 k b i ts \\ 2 k b i ts \\ R \\ $					RoHS	Tube	FT93C56A-CTR-B
Kit Citor Green Tube FT93C56A-CTG-B 0°C-70°C RoHS Tube FT93C56A-CTG-T 2.5V-5.5V RoHS Tube FT93C56-CTR-B 2.5V-5.5V RoHS Tube FT93C56-CTG-T Tape and Reel FT93C56-CTG-B Tube FT93C56-CTG-T Tape and Reel FT93C56A-UTR-B FT93C56A-UTR-B FT93C56A-UTR-B TSSOP8 I.8V-5.5V RoHS Tube FT93C56A-UTR-B 1.8V-5.5V I.8V-5.5V RoHS FT93C56A-UTR-B FT93C56A-UTR-B 1.8V-5.5V RoHS Tube FT93C56A-UTG-B FT93C56A-UTG-B 1.8V-5.5V RoHS Tube FT93C56A-UTG-B FT93C56A-UTG-B 1.8V-5.5V RoHS Tube FT93C56A-UTG-T FT93C56A-UTG-T 2kbits -40°C-85°C RoHS Tube FT93C56A-UTG-T FT93C56A-UTG-T 2.5V-5.5V I.8V-5.5V I.8V-5.5V Tube FT93C56-UTR-T FT93C56-UTR-T 2.5V-5.5V I.8V-5.5V I.8V-5.5V FT93C56-UTR-T					NO15	Tape and Reel	FT93C56A-CTR-T
2kbits 0°C-70°C RoHS Tape and Reel FT93C56A-CTG-T 2.5V-5.5V RoHS Tube FT93C56-CTR-B Tape and Reel FT93C56-CTG-T Tape and Reel FT93C56-CTG-T Tape and Reel FT93C56-CTG-T Tape and Reel FT93C56A-ITR-B Tape and Reel FT93C56A-ITR-B Tape and Reel FT93C56A-ITR-B FT93C56A-UTR-B FT93C56A-UTR-B FT93C56A-UTR-B FT93C56A-UTR-B Tape and Reel FT93C56A-UTR-B FT93C56A-UTR-B FT93C56A-UTR-B Tape and Reel FT93C56A-UTR-T FT93C56A-UTG-B FT93C56A-UTG-B FT93C56A-UTG-T FT93C56A-UTG-T FT93C56A-UTG-T FT93C56A-UTG-T FT93C56A-UTG-T FT93C56-UTR-B FT93C56-UTR-B FT93C56-UTR-B Store RoHS FT93C56-UTR-B Tape and Reel FT93C56-UTR-T FT93C56-UTR-T FT93C56-UTR-T FT93C56-UTR-T FT93C56-UTR-T FT93C56-UTR-T FT93C56-UTR-T FT93C56-UTR-T </td <td></td> <td></td> <td>1.00-5.50</td> <td>Groop</td> <td>Tube</td> <td>FT93C56A-CTG-B</td>				1.00-5.50	Groop	Tube	FT93C56A-CTG-B
2kbits FTSSOP8 2.5V-5.5V RoHS Tube FT93C56-CTR-B 1.8V-5.5V Tape and Reel FT93C56-CTG-B FT93C56-CTG-F 1.8V-5.5V Tape and Reel FT93C56A-ITR-B 1.8V-5.5V FT93C56A-UTR-B FT93C56A-ITR-B 1.8V-5.5V FT93C56A-UTR-B FT93C56A-UTR-B 1.8V-5.5V Tape and Reel FT93C56A-UTR-B 1.8V-5.5V FT93C56A-UTR-T FT93C56A-UTR-T 1.8V-5.5V FT93C56A-UTR-T FT93C56A-UTR-T 1.8V-5.5V FT93C56A-UTR-T FT93C56A-UTR-T 1.8V-5.5V FT93C56A-UTR-T FT93C56A-UTR-T 1.8V-5.5V FT93C56A-UTG-T FT93C56A-UTG-T 1.8V-5.5V FT93C56-UTR-T FT93C56A-UTG-T 1.8V-5.5V FT93C56-UTG-T FT93C56-UTG-T 1.8V-5.5V FT93C56-UTG-T FT93C56-UTR-T 1.8V-5.5V FT93C56-UTR-T FT93C56-UTR-T 1.8V-5.5V FT93C56-UTR-T FT93C56-UTR-T 1.8V-5.5V FT93C56-UTR-T FT93C56-UTR-T 1.8V-5.5V FT93C56-UTR-T FT93C56-UTR-T			റ്റ 70 ന		Gleen	Tape and Reel	FT93C56A-CTG-T
2kbits TSSOP8 2.5V-5.5V Tape and Reel FT93C56-CTR-T 1.8V-5.5V RoHS Tube FT93C56-CTG-B Tube FT93C56A-ITR-B FT93C56A-ITR-B FT93C56A-ITR-B FT93C56A-ITR-T FT93C56A-ITR-T Tape and Reel FT93C56A-ITR-B FT93C56A-ITR-T FT93C56A-ITR-T FT93C56A-ITR-T FT93C56A-ITR-T FT93C56A-ITR-T FT93C56A-ITR-T FT93C56A-ITG-B FT93C56A-ITG-B FT93C56A-ITG-T FT93C56A-ITG-T FT93C56A-ITG-T FT93C56A-ITG-T FT93C56A-ITG-T FT93C56-ITG-T FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B 2.5V-5.5V RoHS Tube FT93C56-ITR-B FT93C56-ITG-T FT93C56-ITG-B FT93C56-ITG-B 2.5V-5.5V Tube FT93C56-ITG-B FT93C56-ITG-B FT93C56-ITG-B FT93C56-ITG-T FT93C56-ITG-T FT93C56-ITG-T FT93C56-ITG-T FT93C56-ITG-T FT93C56-ITG-T </td <td></td> <td rowspan="2"></td> <td>00-700</td> <td></td> <td>Polle</td> <td>Tube</td> <td>FT93C56-CTR-B</td>			00-700		Polle	Tube	FT93C56-CTR-B
2kbits -40°C-85°C 1.8V-5.5V Green Tube FT93C56-CTG-T 7ube FT93C56A-1TR-B FT93C56A-1TR-B 7ube FT93C56A-1TR-B 7ube FT93C56A-1TR-B 7ube FT93C56A-1TR-B 7ube FT93C56A-1TR-T 7ube FT93C56A-1TR-T 7ube FT93C56A-1TR-T 7ube FT93C56A-1TR-T 7ube FT93C56A-1TG-B 7ube FT93C56A-1TG-B 7ube FT93C56A-1TG-T 7ube FT93C56A-1TG-T 7ube FT93C56A-1TG-T 7ube FT93C56A-1TG-T 7ube FT93C56-1TR-B 7ube FT93C56-1TR-B 7ube FT93C56-1TR-B 7ube FT93C56-1TR-T 7ube FT93C56-1TR-T 7ube FT93C56-1TG-T 7ube FT93C56-1TG-B 7ube FT93C56-1TG-T 7ube FT93C56-1TG-T 7ube FT93C56-1TG-T 7ube FT93C56-1TG-T 7				2 5\/_5 5\/	IX0115	Tape and Reel	FT93C56-CTR-T
2kbits TSSOP8 1-40°C-85°C 1.8V-5.5V 1.5V-5.5V				2.50-5.50	Groop	Tube	FT93C56-CTG-B
2kbits TSSOP8 1.8V-5.5V RoHS RoHS RoHS RoHS FT93C56A-UTR-B TSSOP8 1.8V-5.5V ROTOR ROHS ROHS ROHS FT93C56A-UTR-T FT93C56A-UTR-T FT93C56A-UTR-T FT93C56A-UTG-B FT93C56A-UTG-B FT93C56A-UTG-T FT93C56A-UTG-T FT93C56A-UTG-T FT93C56A-UTG-T FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-T FT93C56-ITR-T FT93C56-ITG-T FT93C56-ITG-B FT93C56-ITG-T FT93C56-ITG-T FT93C56-ITG-T FT93C56-ITG-T FT93C56-ITG-B FT93C56-ITG-B FT93C56-ITG-B FT93C56-ITG-T FT93C56-ITG-T FT93C56-ITG-T					Gleen	Tape and Reel	FT93C56-CTG-T
2kbits TSSOP8 1.8V-5.5V RoHS RoHS RoHS FT93C56A-UTR-B Tape and Reel FT93C56A-UTR-T FT93C56A-UTR-T FT93C56A-UTR-T FT93C56A-UTG-B FT93C56A-UTG-B FT93C56A-UTG-T FT93C56A-UTG-T FT93C56A-UTG-T FT93C56A-UTG-T FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-T FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITR-B FT93C56-ITG-B FT93C56-ITG-B						Tubo	FT93C56A-ITR-B
2kbits TSSOP8 1.8V-5.5V 1.5V 1.5V 1.5V 1.5V 1.5V 1.5V 1.5V					Polle	Tube	FT93C56A-UTR-B
TSSOP81.8V-5.5VTubeFT93C56A-UTR-T2kbits-40°C-85°C1.8V-5.5VFT93C56A-UTG-B-40°C-85°C-40°C-85°CFT93C56A-UTG-T-40°C-85°CFT93C56A-UTG-TFT93C56A-UTG-T-40°C-85°CRoHSTubeFT93C56-ITR-BFT93C56-UTG-TFT93C56-ITR-BFT93C56-ITR-BFT93C56-UTR-TTape and ReelFT93C56-ITR-TFT93C56-UTR-TFT93C56-UTR-TFT93C56-UTR-TFT93C56-UTR-TFT93C56-UTR-TFT93C56-UTR-TTubeFT93C56-UTG-TFT93C56-UTG-TFT93C56-UTG-TFT93C56-UTG-TFT93C56-UTG-TTape and ReelFT93C56-UTG-TFT93C56-UTG-T					копо	Tapa and Roal	FT93C56A-ITR-T
2kbits 2kbits 440°C-85°C 440°C-85°C 64-UTG-85°C 64-UTG-85°C 64-UTG-85°C 64-UTG-7573C564-UTG-7573C564-UTG-7573C564-UTG-7573C56-UTG-7573C56-UTG-7573C56-UTR-85575557555555555555555555555555555555				1.8V-5.5V		Tape and Reel	FT93C56A-UTR-T
2kbits -40°C-85°C -555 -555 -555 -555 -555 -555 -555 -						Tubo	FT93C56A-ITG-B
$-40^{\circ}\mathbb{C}-85^{\circ}\mathbb{C}$ $-70^{\circ}\mathbb{C}-85^{\circ}\mathbb{C}$ $-70^{\circ}\mathbb{C}-85^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^{\circ}\mathbb{C}-10^$	2khite				Green	Tube	FT93C56A-UTG-B
$ \begin{array}{c c c c c c c } -40^{\circ}\c-85^{\circ}\c\\ -40^{\circ}\c-85^{\circ}\c\\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	ZKUIIS				Gleen	Tapa and Roal	FT93C56A-ITG-T
2.5V-5.5VRoHSTubeFT93C56-ITR-B2.5V-5.5VRoHSTape and ReelFT93C56-ITR-T2.5V-5.5VTape and ReelFT93C56-ITG-TGreenTubeFT93C56-ITG-BTape and ReelFT93C56-ITG-TFT93C56-ITG-TFT93C56-ITG-TTape and ReelFT93C56-ITG-TFT93C56-ITG-TFT93C56-ITG-T							FT93C56A-UTG-T
RoHS RoHS RoHS FT93C56-UTR-B Tape and Reel FT93C56-ITR-T FT93C56-UTR-T FT93C56-UTR-T FT93C56-UTR-T FT93C56-UTG-B FT93C56-UTG-B FT93C56-UTG-T FT93C56-UTG-T						Tubo	FT93C56-ITR-B
2.5V-5.5VTape and ReelFT93C56-ITR-T2.5V-5.5VTubeFT93C56-UTR-TGreenTubeFT93C56-ITG-BTape and ReelFT93C56-ITG-TTape and ReelFT93C56-ITG-TFT93C56-UTG-TFT93C56-UTG-T						PoHS	Tube
2.5V-5.5V 2.5V-5.5V 2.5V-5.5V Creen Tube FT93C56-ITG-B FT93C56-UTG-B FT93C56-ITG-T Tape and Reel FT93C56-ITG-T FT93C56-UTG-T					IX0115	Tape and Reel	FT93C56-ITR-T
Green Tube FT93C56-ITG-B FT93C56-UTG-B FT93C56-UTG-B Tape and Reel FT93C56-ITG-T FT93C56-UTG-T FT93C56-UTG-T				2 5\/_5 5\/		Tape and Reel	FT93C56-UTR-T
Green FT93C56-UTG-B Tape and Reel FT93C56-ITG-T FT93C56-UTG-T				2.50-5.50		Tubo	FT93C56-ITG-B
Tape and Reel FT93C56-ITG-T FT93C56-UTG-T FT93C56-UTG-T					Groop	Tube	FT93C56-UTG-B
F193C56-UIG-T					Gleen	Tapa and Roal	FT93C56-ITG-T
						Tape and Reel	FT93C56-UTG-T
1.8V-5.5V			1 8\/-5 5\/	RoHS	Tape and Reel	FT93C56A-UNR-T	
DFN8 -40°C-85°C Green Tape and Reel FT93C56A-UNG-T			- 40°C-85°C	1.00-0.00	Green	Tape and Reel	FT93C56A-UNG-T
2.5V-5.5V RoHS Tape and Reel FT93C56-UNR-T		DEINO	-40 C-03 C	2 5\/-5 5\/	RoHS	Tape and Reel	FT93C56-UNR-T
Green Tape and Reel FT93C56-UNG-T				2.39-5.59	Green	Tape and Reel	FT93C56-UNG-T



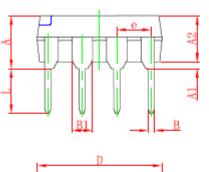
Preliminary 93C46/A, 56/A, 66/A

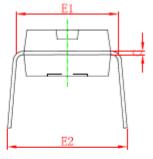
Density	Package	Temperature Range	Pin and Voltage	HSF	Packaging	Ordering Code
		0℃ -70 ℃	1.8V-5.5V	RoHS	Tube	FT93C66A-CDR-B
				Green	Tube	FT93C66A-CDG-B
			2.5V-5.5V	RoHS	Tube	FT93C66-CDR-B
				Green	Tube	FT93C66-CDG-B
	DIP8		1.8V-5.5V	RoHS	Tube -	FT93C66A-IDR-B
						FT93C66A-UDR-B
	DIPO			Croon	Tube -	FT93C66A-IDG-B
				Green		FT93C66A-UDG-B
		-40℃-85℃		RoHS	- -	FT93C66-IDR-B
					Tube	FT93C66-UDR-B
			2.5V-5.5V	Croon	Tube	FT93C66-IDG-B
				Green		FT93C66-UDG-B
4kbits					Tube	FT93C66A-CSR-B
				RoHS	Tape and Reel	FT93C66A-CSR-T
	SOP8		1.8V-5.5V	Orean	Tube	FT93C66A-CSG-B
		0℃ -70 ℃		Green	Tape and Reel	FT93C66A-CSG-T
			2.5V-5.5V	RoHS	Tube	FT93C66-CSR-B
					Tape and Reel	FT93C66-CSR-T
				Green	Tube	FT93C66-CSG-B
					Tape and Reel	FT93C66-CSG-T
		-40℃-85℃	1.8V-5.5V	RoHS	Tube	FT93C66A-ISR-B
						FT93C66A-USR-B
					Tape and Reel	FT93C66A-ISR-T
						FT93C66A-USR-T
				Green	Tube	FT93C66A-ISG-B
						FT93C66A-USG-B
					Tape and Reel	FT93C66A-ISG-T
						FT93C66A-USG-T
			2.5V-5.5V	RoHS	Tube	FT93C66-ISR-B
						FT93C66-USR-B
					Tape and Reel	FT93C66-ISR-T
						FT93C66-USR-T
				Green	Tube	FT93C66-ISG-B
						FT93C66-USG-B
					Tana and David	FT93C66-ISG-T
					Tape and Reel	FT93C66-USG-T

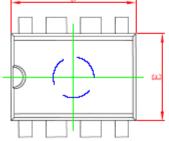


Image: heat with the second state of the second st
4kbits 1.8V-5.5V 1.8V-5.5V Image and Reel FT93C66A-CTG-B 0°C-70°C RoHS Tube FT93C66A-CTG-T 2.5V-5.5V RoHS Tube FT93C66-CTR-B Tape and Reel FT93C66-CTG-T Tape and Reel FT93C66-CTG-T Tape and Reel FT93C66-CTG-T Tube FT93C66-CTG-T Tape and Reel FT93C66A-ITG-T FT93C66A-UTR-B FT93C66A-UTR-B Tape and Reel FT93C66A-UTR-B FT93C66A-UTR-B FT93C66A-UTR-B FT93C66A-UTR-B Tube FT93C66A-UTR-B FT93C66A-UTR-B FT93C66A-UTR-B Tape and Reel FT93C66A-UTR-B FT93C66A-UTR-B 4kbits 1.8V-5.5V RoHS Tube FT93C66A-UTR-B FT93C66A-UTR-B FT93C66A-UTR-B FT93C66A-UTR-B FT93C66A-UTR-B FT93C66A-UTR-T FT93C66A-UTR-T FT93C66A-UTR-B FT93C66A-UTG-B 4kbits 1.8V-5.5V Tube FT93C66A-UTG-B FT93C66A-UTG-B
4kbits 0°C-70°C 0°C-70°C Tape and Reel FT93C66A-CTG-T 0°C-70°C Norman RoHS Tube FT93C66-CTR-B 1 Tube FT93C66-CTG-B Tape and Reel FT93C66-CTG-B 1 Tube FT93C66-CTG-T Tape and Reel FT93C66-CTG-T 1 Tube FT93C66A-ITR-B FT93C66A-ITR-B 1 Tube FT93C66A-ITR-B FT93C66A-ITR-B 1 Tube FT93C66A-ITR-T FT93C66A-ITR-T 1 Tape and Reel FT93C66A-ITR-T FT93C66A-ITR-T 1 Tube FT93C66A-ITG-B FT93C66A-ITG-B 1 Tape and Reel FT93C66A-ITG-B FT93C66A-ITG-B 1 Tape and Reel FT93C66A-ITG-T FT93C66A-ITG-T
AkbitsTSSOP8Image: Constraint of the constraint of
4kbitsTSSOP82.5V-5.5VTape and ReelFT93C66-CTR-T1.8V-5.5V- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
4kbits TSSOP8 Image: constraint of the system of the
4kbitsTSSOP81.8V-5.5VTape and ReelFT93C66A-ITR-B4kbitsFT93C66A-UTR-TFT93C66A-UTR-T4kbitsFT93C66A-UTR-TFT93C66A-UTR-T4kbitsFT93C66A-UTR-TFT93C66A-UTR-T4kbitsFT93C66A-UTR-TFT93C66A-UTR-T4kbitsFT93C66A-UTR-TFT93C66A-UTR-T4kbitsFT93C66A-UTR-TFT93C66A-UTG-T4kbitsFT93C66A-UTG-TFT93C66A-UTG-T
4kbitsTSSOP81.8V-5.5VRoHSTubeFT93C66A-UTR-B4kbits1.8V-5.5V1.8V-5.5VFT93C66A-UTR-TFT93C66A-UTR-T4kbitsFT93C66A-UTR-TFT93C66A-UTG-BFT93C66A-UTG-B4kbitsFT93C66A-UTG-BFT93C66A-UTG-BFT93C66A-UTG-B
4kbitsTSSOP81.8V-5.5VRoHSFT93C66A-UTR-B4kbits1.8V-5.5VTape and ReelFT93C66A-UTR-TFT93C66A-UTR-TFT93C66A-UTR-TFT93C66A-UTG-BFT93C66A-UTG-BFT93C66A-UTG-BFT93C66A-UTG-TTape and ReelFT93C66A-UTG-TFT93C66A-UTG-TFT93C66A-UTG-T
4kbitsTSSOP81.8V-5.5VTape and ReelFT93C66A-ITR-T4kbits1.8V-5.5VFT93C66A-UTR-TFT93C66A-ITG-B4kbitsFT93C66A-ITG-BFT93C66A-ITG-B4kbitsFT93C66A-UTG-BFT93C66A-ITG-T
4kbitsTSSOP81.8V-5.5VFT93C66A-UTR-T4kbits1.8V-5.5VFT93C66A-ITG-B4kbitsFT93C66A-UTG-BFT93C66A-UTG-BFT93C66A-ITG-TTape and ReelFT93C66A-ITG-TFT93C66A-UTG-TFT93C66A-UTG-T
4kbits FT93C66A-ITG-B Green Tube FT93C66A-UTG-B Tape and Reel FT93C66A-ITG-T
4kbits Green FT93C66A-UTG-B Tape and Reel FT93C66A-ITG-T FT93C66A-UTG-T
Tape and Reel FT93C66A-ITG-T
I F193C66A-UTG-T
-40°C-85°C
Tube FT93C66-ITR-B
RoHS FT93C66-UTR-B
Tape and Reel
2.5V-5.5V FT93C66-UTR-T
Tube FT93C66-ITG-B
Green FT93C66-UTG-B
Tape and Reel FT93C66-ITG-T
FT93C66-UTG-T
1.8V-5.5V RoHS Tape and Reel FT93C66A-UNR-T
Green Tape and Reel FT93C66A-UNG-T
DFN8 -40°C-85°C Green Tape and Reel FT93C66A-UNG-T 2.5V-5.5V RoHS Tape and Reel FT93C66-UNR-T

DIP8 PACKAGE OUTLINE DIMENSIONS



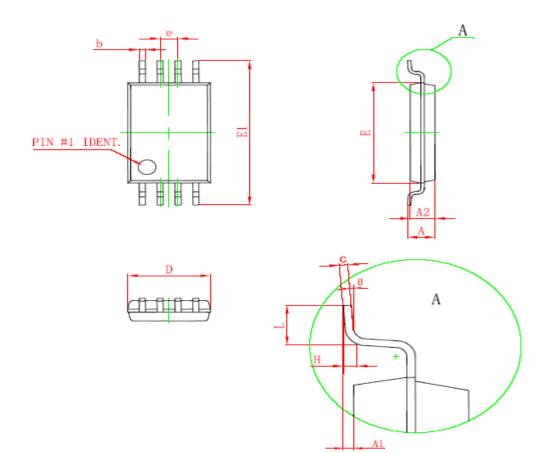




Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
А	3.710	4.310	0.146	0.170	
A1	0.510		0.020		
A2	3.200	3.600	0.126	0.142	
В	0.380	0.570	0.015	0.022	
B1	1.524 (BSC)		0.060 (BSC)		
С	0.204	0.360	0.008	0.014	
D	9.000	9.400	0.354	0.370	
E	6.200	6.600	0.244	0.260	
E1	7.320	7.920	0.288	0.312	
е	2.540 (BSC)		0.100 (BSC)		
L	3.000	3.600	0.118	0.142	
E2	8.400	9.000	0.331	0.354	



TSSOP8 PACKAGE OUTLINE DIMENSIONS

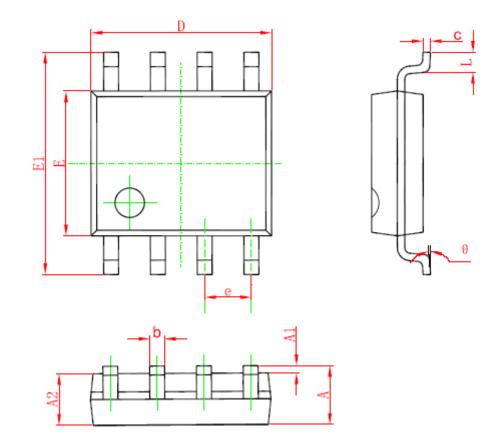


Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
D	2.900	3.100	0.114	0.122	
E	4.300	4.500	0.169	0.177	
b	0.190	0.300	0.007	0.012	
С	0.090	0.200	0.004	0.008	
E1	6.250	6.550	0.246	0.258	
А		1.100		0.043	
A2	0.800	1.000	0.031	0.039	
A1	0.020	0.150	0.001	0.006	
е	0.65 (BSC)		0.026 (BSC)		
L	0.500	0.700	0.020	0.028	
Н	0.25 (TYP)		0.01 (TYP)		
θ	1°	7°	1°	7°	

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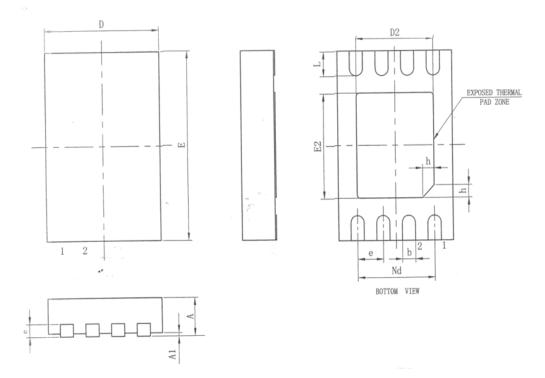
SOP8 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
А	1.350	1.750	0.053	0.069	
A1	0.100	0.250	0.004	0.010	
A2	1.350	1.550	0.053	0.061	
b	0.330	0.510	0.013	0.020	
С	0.170	0.250	0.006	0.010	
D	4.700	5.100	0.185	0.200	
E	3.800	4.000	0.150	0.157	
E1	5.800	6.200	0.228	0.244	
е	1.270 (BSC)		0.050 (BSC)		
L	0.400	1.270	0.016	0.050	
θ	0°	8°	0°	8°	



DFN8 PACKAGE OUTLINE DIMENSIONS



Gumbal	Dimensions In Millimeters			
Symbol	Min	Nom	Max	
A	0.70	0.75	0.80	
A1	-	0.02	0.05	
b	0.18	0.25	0.30	
С	0.18	0.20	0.25	
D	1.90	2.00	2.10	
D2		1.50REF		
е	0.50BSC			
Nd	1.50BSC			
E	2.90	3.00	3.10	
E2	1.40		1.60	
L	0.20		0.40	
h	0.20	0.25	0.30	

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