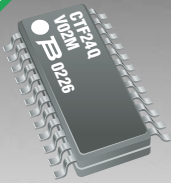


\*ROHS COMPLIANT  
VERSIONS  
AVAILABLE



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## Features

- Lead free versions available
- RoHS compliant (lead free version)\*
- 18 RC terminators tied to a common node
- Stable thin-film-on-silicon technology
- Ultra-miniature packages to JEDEC standards

## Applications

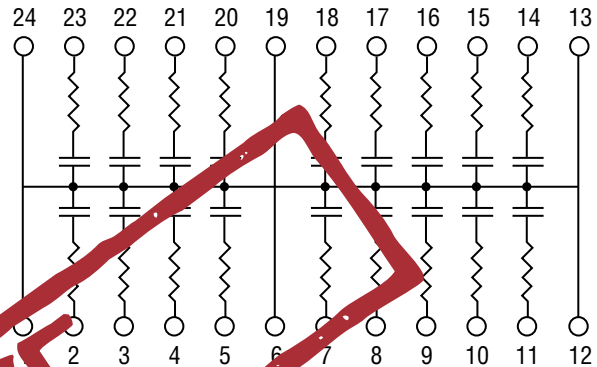
- High-speed bus termination
- Low power consumption
- Ideal for space-constrained applications

# Thin Film on Silicon 2CTF AC Terminator x18

### General Information

The AC Terminator is used to provide termination for clock and data lines where transmission line effects would otherwise cause wave reflections or signal ringing. These Silicon-based, Tantalum-Nitride resistors and capacitors feature excellent stability, temperature coefficients and tracking performance. This product series conforms to JEDEC standards.

### Package Schematic



### Electrical & Environmental Characteristics

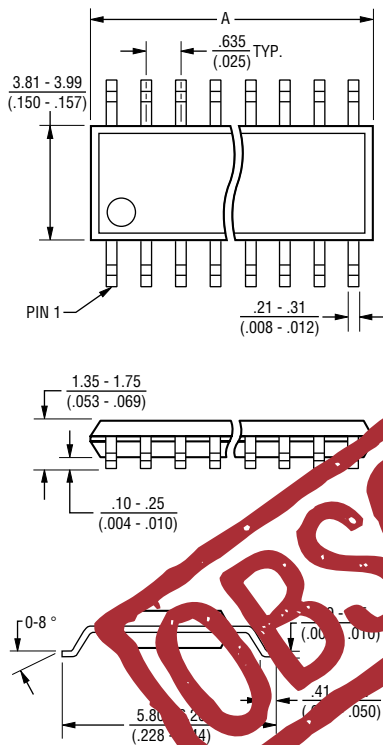
Electrical Characteristics	Symbol	Minimum	Nominal	Maximum	Unit
Resistance Range		33		190	$\Omega$
Resistor Tolerance			$\pm 10\%$		$\Omega$
Power Rating per Resistor @ 70 °C				0.1	Watt
Capacitor Range		33		180	pF
Capacitor Tolerance			$\pm 20\%$		pF
Capacitor Breakdown Voltage				200	V
Operating Voltage				50	V
<b>Environmental Characteristics</b>					
ESD		2 K			V
Operating Temperature	$T_J$	-55		+125	$^{\circ}\text{C}$
Storage Temperature	$T_{stg}$	-65		+150	$^{\circ}\text{C}$
Power Rating per Package @ 70 °C				1.0	Watt

# Thin Film on Silicon 2CTF AC Terminator x18

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## Mechanical Characteristics

### QSOP Package Dimensions

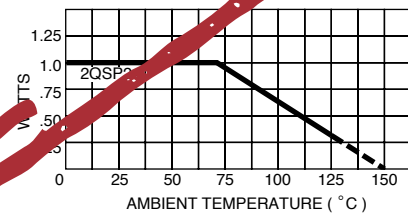


Model	A
2QSP24	8.56 - 8.74 (.337 - .344)

Governing dimensions are in mm. Dimensions in parentheses are in inches and are approximate.

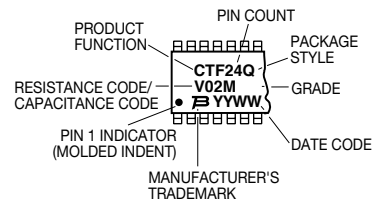
JEDEC Reference Number MO-187.

### QSOP Package Power Temperature Derating Curve



### Typical Part Marking

Represents total content. Layout may vary.



### Standard RC Values

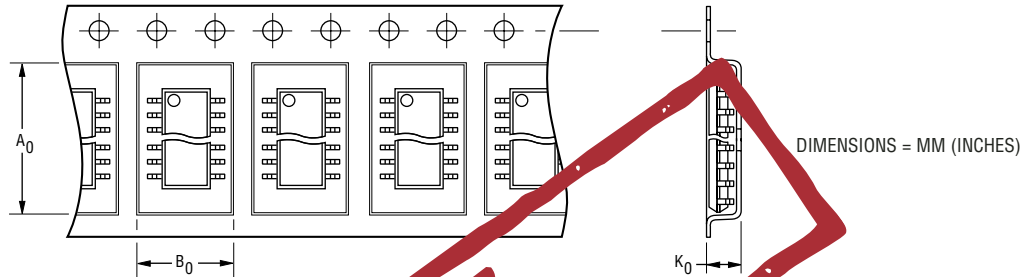
Value Code	R Value (ohms)	C Value (pF)	Cap. BV (typ.)	Part Number (Tape & Reel)	Part Number (Tubes)
V01	33	47	130	2CTF-V01M-Q24R	2CTF-V01M-Q24T
V02	47	47	130	2CTF-V02M-Q24R	2CTF-V02M-Q24T
V03	47	33	190	2CTF-V03M-Q24R	2CTF-V03M-Q24T
V04	50	180	35	2CTF-V04M-Q24R	2CTF-V04M-Q24T
V05	75	50	120	2CTF-V05M-Q24R	2CTF-V05M-Q24T
V06	100	100	63	2CTF-V06M-Q24R	2CTF-V06M-Q24T

# Thin Film on Silicon 2CTF AC Terminator x18

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## Dispensing

For large quantities, the product will be dispensed in Tape and Reel (see diagram below).



Package	A <sub>0</sub>	B <sub>0</sub>	K <sub>0</sub>	Lead Width	Pitch	No. of Pieces per 13 reel	No. of Pieces per tube
QSOP 24 Pin	6.5 (0.256)	9.0 (0.354)	2.1 (0.083)	0.630 (0.025)	8 (0.315)	3,500	56

## How To Order

2 C T F - V02 M Q 24 R

Product Class \_\_\_\_\_  
Thin-Film-on-Silicon

Product Function \_\_\_\_\_  
CTF = AC Terminator

Value Code \_\_\_\_\_  
(Refer to Standard RC Value Table)

Standard Grade \_\_\_\_\_  
R Tol. C Tol.  
M = ±10 % ±20 %

Standard Package Style \_\_\_\_\_  
Q = QSOP

Pin Count \_\_\_\_\_  
Q = 24

Dispensing \_\_\_\_\_  
R = Reel T = Tube

Terminations \_\_\_\_\_  
LF = 100 % Sn (lead free)  
Blank = Sn/Pb



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