

Features

- RoHS compliant*
- 18 RC terminators tied to a common node
- Stable thin-film-on-silicon technology
- Ultra-miniature packages to JEDEC standards

Applications

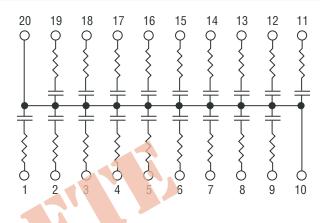
- High-speed bus termination
- Low power consumption
- Ideal for space-constrained applications

Thin Film on Silicon 2CTA AC Terminator x 18

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	R	33		100	Ω
Resistor Tolerance			±10 %		Ω
Power Rating per Resistor @ 70 °C				0.1	Watt
Capacitor Range	С	33		180	pF
Capacitor Tolerance			±20 %		pF
Capacitor Breakdown Voltage		25	35		V
Operating Voltage				50	V
Environmental Characteristics					
ESD		2 K			V
Operating Temperature	Тј	-55		+125	°C
Storage Temperature	T _{stg}	-65		+150	°C
Power Rating per Package @ 70 °C	0			1.0	Watt

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex

Specifications are subject to change without notice.

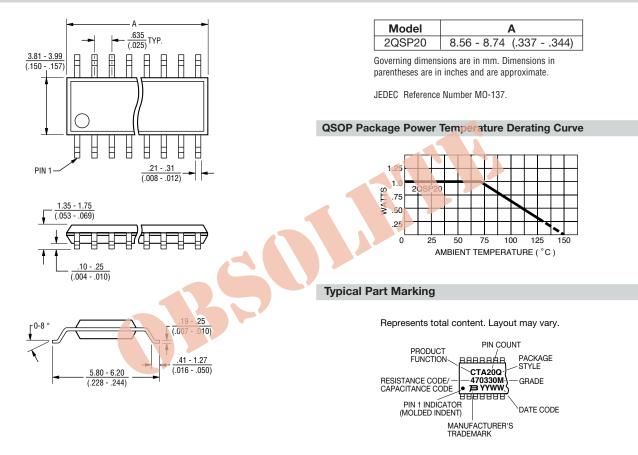
Customers should verify actual device performance in their specific applications.

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Mechanical Characteristics

QSOP Package Dimensions



Standard RC Values

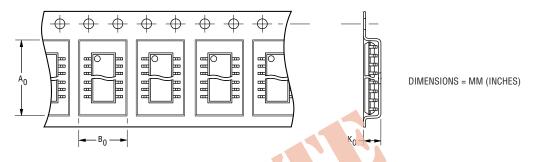
R1 Value (ohms)	C1 Value (pF)	Cap. BV (typ.)	Part Number (Tape & Reel)	Part Number (Tubes)
100	100	25	2CTA101/101MQ20RLF	2CTA101/101MQ20TLF
33	47	50	2CTA330/470MQ20RLF	2CTA330/470MQ20TLF
47	47	50	2CTA470/470MQ20RLF	2CTA470/470MQ20TLF

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Dispensing

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



Package	A ₀	B ₀	K ₀	Width	Pitch	No. of Pieces per 13 reel	No. of Pieces per tube
QSOP 20 Pin	6.5 (0.256)	9.0 (0.354)	2.1 (0.083)	16 (0.630)	8 (0.315)	3,500	56

How To Order

	2 CTA 101 / 101 M Q 20 R LF
Product Class — Thin-Film-on-Silicon	
Product Function — CTA = AC Terminator x 18	
Resistance Value Code 1st two digits are significant, 3rd digit = number of zeros to foll to give resistance value in ohms.	ow
Capacitance Code — 1st two digits are significant, 3rd digit = number of zeros to folk to give capacitor value in pF.	
Standard Grade	
Standard Package Style Q = QSOP	
Pin Count Q = 20	
Dispensing R = Reel T = Tube	
Terminations	

LF = 100 % Sn (RoHS Compliant)



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