

### **Features**

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

### **Applications**

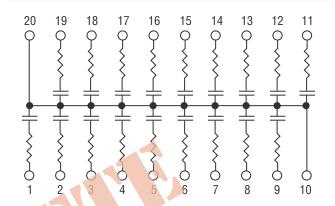
- High-speed bus termination
- Low power consumption
- Ideal for space-constrained applications

# 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	TJ	-55		+125	°C
Storage Temperature	T <sub>stg</sub>	-65		+150	°C
Power Rating per Package @ 70 °C				1.0	Watt

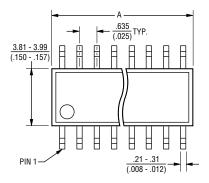
<sup>\*</sup>RoHS Directive 2002/95/EC Jan 27 2003 including Annex

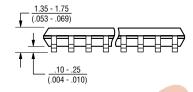
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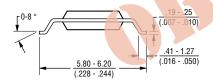
## BOURNS

#### **Mechanical Characteristics**

#### **QSOP Package Dimensions**





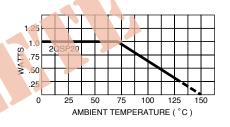


Model	Α				
2QSP20	8.56 - 8.74 (.337344)				

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

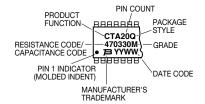
JEDEC Reference Number MO-137.

#### **QSOP Package Power Temperature Derating Curve**



### **Typical Part Marking**

Represents total content. Layout may vary.



#### **Standard RC Values**

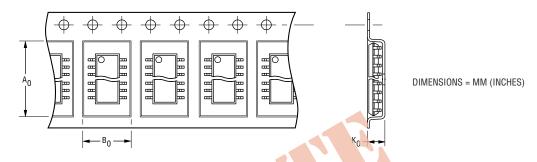
R1 Value (ohms)	C1 Value (pF)	Cap. BV (typ.)	Part Number (Tape & Reel)	Part Number (Tubes)		
100	100	25	2CTA101/101MQ20RLF	2CTA101/101MQ20TLF		
33	47	50	2CTA330/470MQ20RLF	2CTA330/470MQ20TLF		
47	47	50	2CTA470/470MQ20RLF	2CTA470/470MQ20TLF		

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## **BOURNS®**

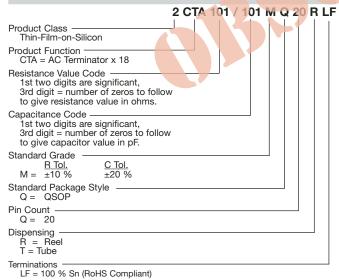
#### Dispensing

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



Package	A <sub>0</sub>	В0	K <sub>0</sub>	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**





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