

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

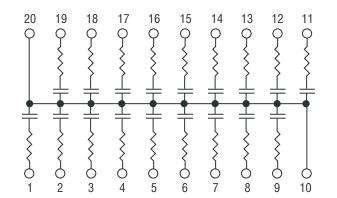
- High-speed bus termination
- Low power consumption
- Ideal for space-constrained applications

Thin Film on Silicon 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

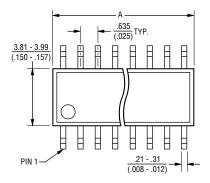
Electrical Characteristics	Symbol	Minimum	Nominal	Maximum	Unit
Resistance Range	R	33		100	Ω
Resistor Tolerance			±10 %		Ω
Power Rating per Resistor @ 70 °C				0.1	Watt
Capacitor Range	С	33		180	pF
Capacitor Tolerance			±20 %		pF
Capacitor Breakdown Voltage		25	35		V
Operating Voltage				50	V
Environmental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

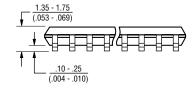
Thin Film on Silicon 2CTA AC Terminator x 18

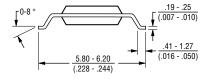
BOURNS®

Mechanical Characteristics

QSOP Package Dimensions





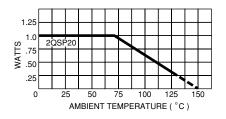


Model	A				
2QSP20	8.56 - 8.74 (.337344)				

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

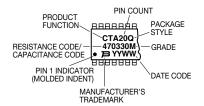
JEDEC Reference Number MO-137.

QSOP Package Power Temperature Derating Curve



Typical Part Marking

Represents total content. Layout may vary.



Standard RC Values

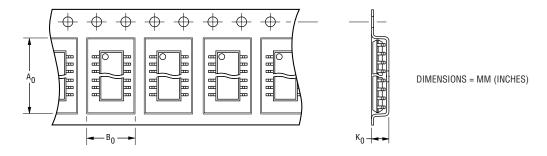
R1 Value (ohms)	C1 Value (pF)	Cap. BV (typ.)	Part Number (Tape & Reel)	Part Number (Tubes)
100	100	25	2CTA-101/101M-Q20R	2CTA-101/101M-Q20T
33	47	50	2CTA-330/470M-Q20R	2CTA-330/470M-Q20T
47	47	50	2CTA-470/470M-Q20R	2CTA-470/470M-Q20T

Thin Film on Silicon 2CTA AC Terminator x 18

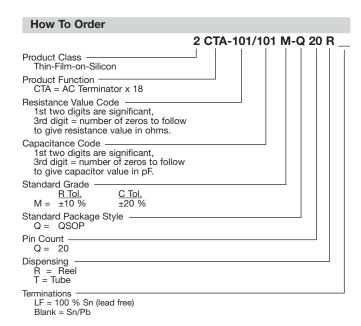
BOURNS®

Dispensing

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



Package	A ₀	В0	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





Reliable Electronic Solutions

Asia-Pacific:

Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116

Europe:

Tel: +41-41 768 5555 • Fax: +41-41 768 5510

The Americas:

Tel: +1-951 781-5500 • Fax: +1-951 781-5700

www.bourns.com