

### **Features**

- Lead free
- RoHS compliant\*
- 8 RC filters with common ground
- Stable thin-film-on-silicon technology
- Ultra-miniature packages to JEDEC standards

### **Applications**

- EMI/RFI filtering on bus lines
- High frequency applications
- Ideal for space-constrained applications

# Thin Film on Silicon 2CFA Tapped RC Filter

#### **General Information**

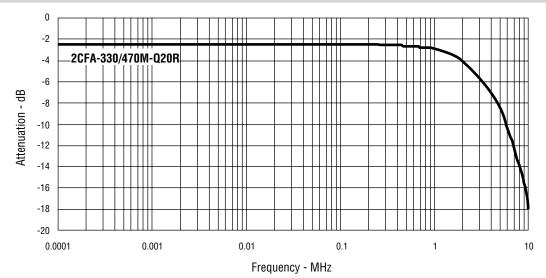
Tapped Filters are typically used for filtering EMI and RFI on high-speed data lines connecting computer with peripheral. These Silicon-based, Tantalum Nitride resistors and capacitors feature excellent stability, temperature coefficients and tracking performance. This product series conforms to JEDEC standards.

## 

#### **Electrical & Environmental Characteristics**

Electrical Characteristics	Symbol	Minimum	Nominal	Maximum	Unit
Resistance Range	R	10		470	Ω
Resistor Tolerance			±10 %		Ω
Power Rating per Resistor @ 70 °C				0.1	Watt
Capacitor Range	C	15		220	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	9			1.0	Watt

#### **Frequency Response**



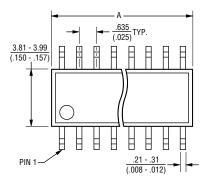
<sup>\*</sup>RoHS Directive 2002/95/EC Jan 27 2003 including Annex Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.

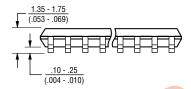
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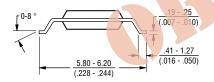
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#### **Mechanical Characteristics**

#### **QSOP Package Dimensions**





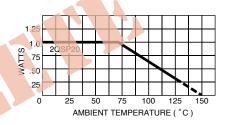


Model	Α			
2QSP20	8.56 - 8.74 (.337344)			

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

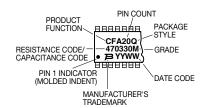
JEDEC Reference Number MO-137.

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



### **Typical Part Marking**

Represents total content. Layout may vary.



#### Standard RC Values

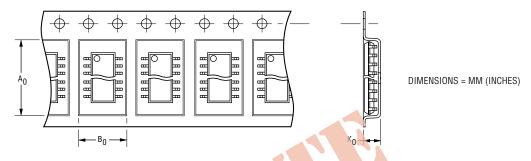
R1 Value (ohms)	C1 Value (pF)	Cap. BV (typ.)	Part Number (Tape & Reel)	Part Number (Tubes)
33	47	75	2CFA-330/470M-Q20R	2CFA-330/470M-Q20T

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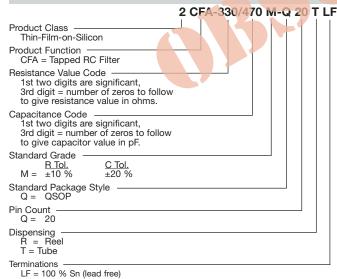
#### Dispensing

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



Package	Α <sub>0</sub>	В <sub>0</sub>	К <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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