

### **Features**

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

### **Applications**

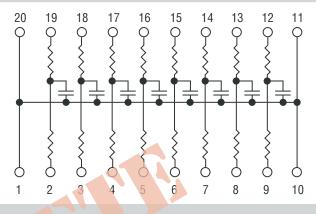
- Bidirectional EMI/RFI filtering on bus lines
- High frequency applications
- Ideal for space-constrained applications

### General Information

T-Filters are typically used for bidirectional filtering of 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.

### Package Schematic

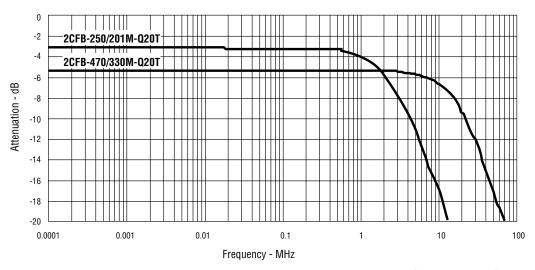
Thin Film on Silicon 2CFB T-Filter



### **Electrical & Environmental Characteristics**

Electrical Characteristics	Symbol	Minimum	Nominal	Maximum	Unit
Resistance Range	R	10		100	Ω
Resistor Tolerance			±10 %		Ω
Power Rating per Resistor @ 70 °C				0.1	Watt
Capacitor Range	C	15		250	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 <sub>stg</sub>	-65		+150	°C
Power Rating per Package @ 70 °C	<u>_</u>			1.0	Watt

#### **Filter Response**

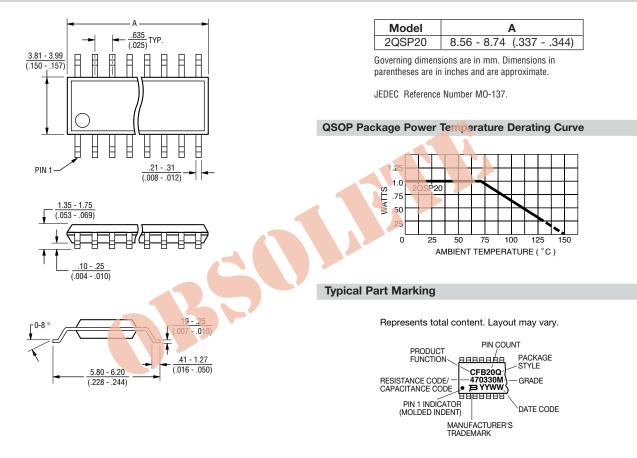


# Thin Film on Silicon 2CFB T-Filter

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#### **Mechanical Characteristics**

### **QSOP** Package Dimensions



### Standard RC Values

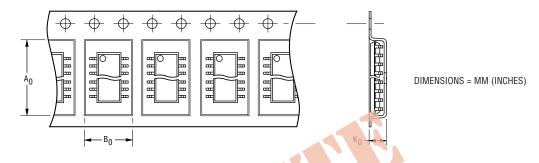
R1 Value (ohms)	C1 Value (pF)	Cap. BV (typ.)	Part Number (Tape & Reel)	Part Number (Tubes)
25	200	25	2CFB-250/201M-Q20R	2CFB-250/201M-Q20T
47	33	25	2CFB-470/330M-Q20R	2CFB-470/330M-Q20T
100	100	25	2CFB-101/101M-Q20R	2CFB-101/101M-Q20T

# Thin Film on Silicon 2CFB T-Filter

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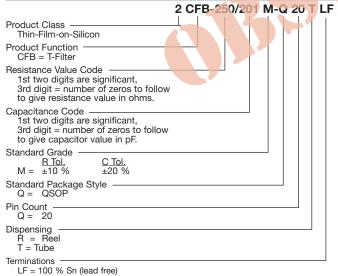
### Dispensing

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>	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







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