

EMI Suppression

Ferrite Components for Printed Circuit Boards

Single Line Surface Mount Chokes

Mounting: SMT Ambient Temperature Range: -55 ° C to +125 ° C Mode: Differential

Part No.	Package Size	Mounting	Typical Impedance (z) ohms			iMax (mA)	Filtered Circuits	Length (mm)	Width (mm)	Height (mm)
			25 @ 300 MHz	28 @ 100 MHz	35 @ 25 MHz					
25F0121-1SR	0121	SMT	106			5,000	1	3.05	8.51	2.74
28F0121-1SR	0121	SMT		96		5,000	1	3.05	8.51	2.74
35F0121-1SR	0121	SMT			71	5,000	1	3.05	8.51	2.74
25F0121-0SR	0121	SMT	52			5,000	1	3.05	4.06	2.74
28F0121-0SR	0121	SMT		56		5,000	1	3.05	4.06	2.74
35F0121-0SR	0121	SMT			35	5,000	1	3.05	4.06	2.74
25F0181-1SR	0181	SMT	133			5,000	1	4.57	8.51	2.74
28F0181-1SR	0181	SMT		120		5,000	1	4.57	8.51	2.74
35F0181-1SR	1SR	SMT			89	5,000	1	4.57	8.51	2.74

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Single Line Surface Mount Chokes

Two-terminal surface mount ferrites provide compact, cost effective EMI filtering for today's densely packed single and double sided surface mount PCB designs. Our small footprint SMT ferrite enables designers to place high performance filtering very close to troublesome high frequency devices.

Features:

- Small footprint permits use in densely populated surface mount designs
- Hi current carrying capabilities
- Economical component for applications requiring discrete signal filtering
- Parts available in broad band, low and high frequency materials

Applications:

- Discrete component filtration in power supplies
- Filtering of power input pins of oscillators and logic devices using high speed clocks
- Filtering of low frequency input/output signals entering/leaving shielded enclosures
- High frequency filtering of medium speed clocks and video signals
- Preventing oscillations in high frequency amplifiers
- Disc drives

Test Specifications:

- Maximum current ratings (rated I Max) are determined by testing to a maximum temperature rise of 40°C with continuous current.
- Board level components are rated up to a maximum of 75 volts
- **Tested with:** HP4396A (100KHz - 1.8 GHz) or (to 6 GHz) Network/Spectrum Analyzer • HP43961A Impedance Test Kit • HP16192A Test Fixture or Inter-Continental Microwave custom fixtures
- HP16200A DC Bias Adapter • Phillips PM2811 DC Power Supply
- Ambient Temperature 23.5°C + 2°
- Bandwidth 3 kHz
- Sweep Time 423 ms
- Impedance is rated at + 25% @ 100MHz

PART NUMBERING SYSTEM						
<u>28</u>	<u>F</u>	<u>0121</u>	-	<u>1</u>	<u>S</u>	<u>R</u>
MATERIAL TYPE	PRODUCT CODE	PART SIZE CODE		SELECTED DIMENSION (Usually Height)	ADDITIONAL DESCRIPTION	PACKAGING OR FINISH CODE

Ambient Operating Temperature Range: -55° C to +125° C

PART NUMBER	A mm (inches)	B mm (inches)	C mm (inches)	D mm (inches)	E mm (inches)	Typical Impedance (z) ohms			RATED I MAX (continuous) mA
						25 Material @ 300 MHz	28 Material @ 100 MHz	35 Material @ 25 MHz	
--F0121-1SR	3.05 + 0.10 (0.120 + 0.004)	2.74 + 0.13 (0.108 + 0.005)	8.51 + 0.25 (0.335 + 0.010)	1.46 + 0.06 (0.058 + 0.003)	1.27 + 0.05 (0.050 + 0.005)	106	96	71	5,000
--F0121-0SR	3.05 + 0.10 (0.120 + 0.004)	2.74 + 0.13 (0.108 + 0.005)	4.06 + 0.25 (0.160 + 0.010)	1.46 + 0.06 (0.058 + 0.003)	1.27 + 0.05 (0.050 + 0.005)	52	56	35	5,000
--F0181-1SR	4.57 + 0.10 (0.180 + 0.004)	2.74 + 0.13 (0.108 + 0.005)	8.51 + 0.25 (0.335 + 0.010)	1.46 + 0.06 (0.058 + 0.003)	1.27 + 0.05 (0.050 + 0.005)	133	120	89	5,000

