

CMF Series



The CMF series is a type of common mode filter designed and produced using the multilayer technology. The multilayer construction allows for excellent noise suppression for signal lines used in high-speed and high-density digital equipment such as personal computers, facsimiles, DSC, STB, etc. Both standard series and custom-design products are available.

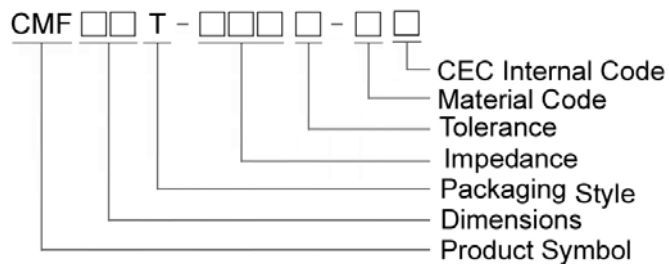
Features

- Multilayer construction for effective suppression of common mode noise at high frequency
- Excellent solderability
- Compact design

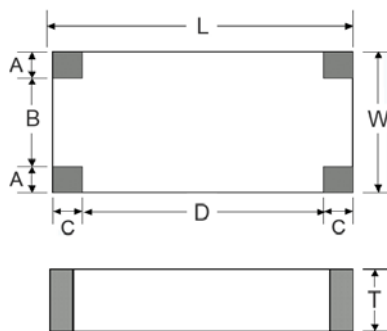
Applications

- High speed interfaces (IEEE1394, USB2.0, and LVDS) in electronic devices
- PDP, LCD TV, DVD player, PC, Audio player, DSC
- Digital audio and video equipment such as PDAs, DVC, CD player, MD player, etc.

Product Identification



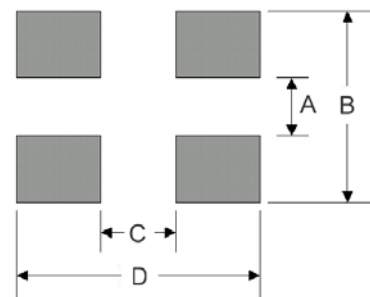
Shape and Dimensions



Dimensions in mm

TYPE	L	W	T	A	B	C	D
CMF21	2.00±0.2	1.25±0.2	0.65±0.2	0.30±0.1	0.65±0.2	0.30±0.1	1.40±0.2

Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
CMF21	0.50	1.30	0.80	2.60

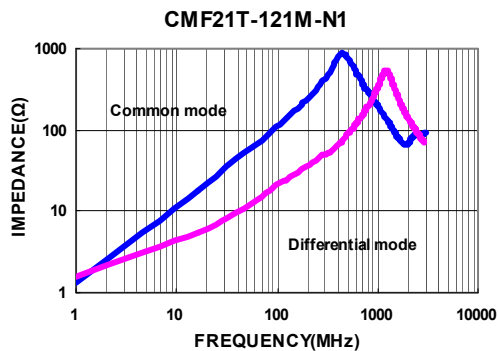
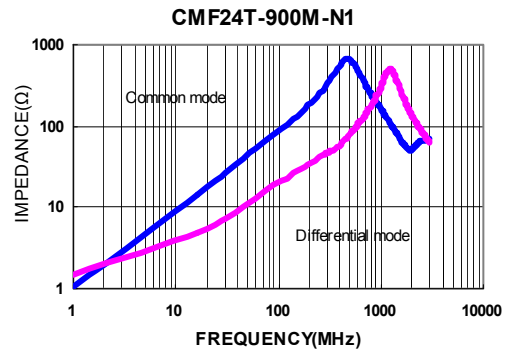
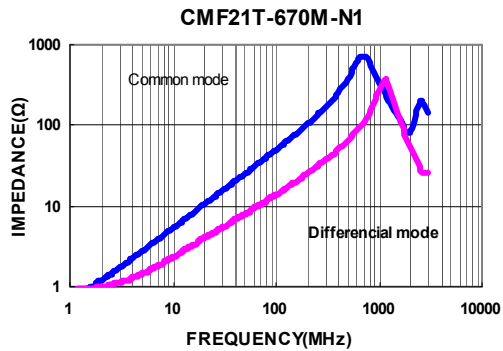
SMD Multilayer Common Mode Filter - CMF Series

Electrical Characteristics

Part Number	Impedance (Ω)	Test Frequency (MHz)	Tolerance ($\pm\%$)	RDC (Ω)Max	Rated Current (mA)	Rated Voltage (Vdc)	Insulation Resistance (M Ω) Min
CMF21T-670M-N1	67	100	20	0.4	400	30	200
CMF21T-900M-N1	90	100	20	0.4	400	30	200
CMF21T-121M-N1	121	100	20	0.4	400	30	200

- When ordering, please specify tolerance and packaging codes
- Tolerance: M = $\pm 20\%$
- Packaging: Clear tape and reel {standard}
- Z: Agilent E4991A
- Rdc (single line): CH502BC/ HP4338B
- Insulation Resistance: Agilent/HP4339B
- Operating temperature range from -25 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$. (Including self - temperature rise)

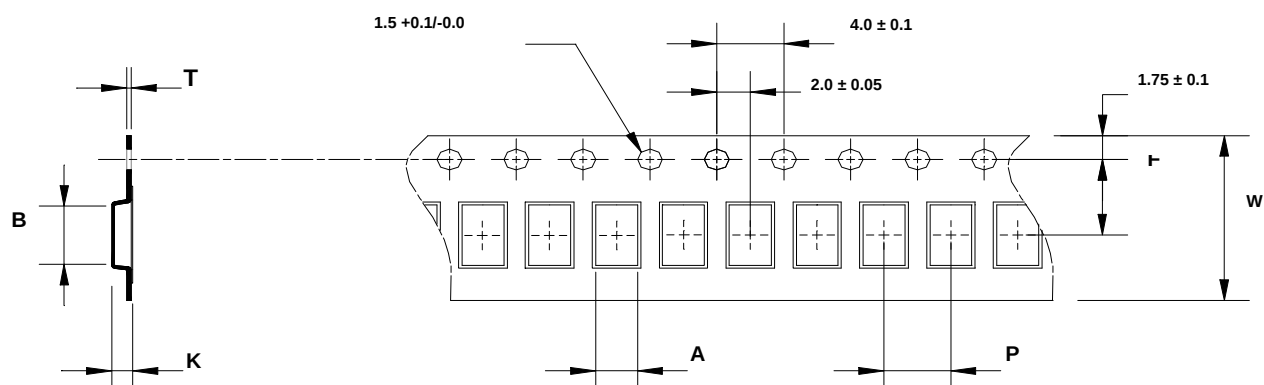
Test Instruments : Agilent E4991A Material/Impedance Analyzer



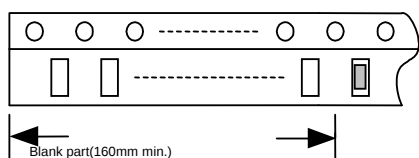
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Packaging Specifications

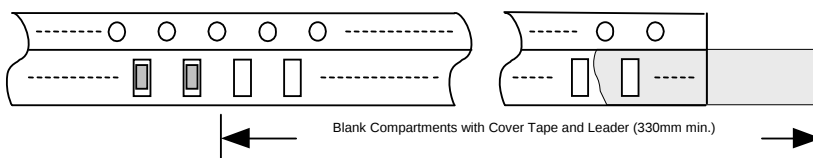
Tape Dimensions



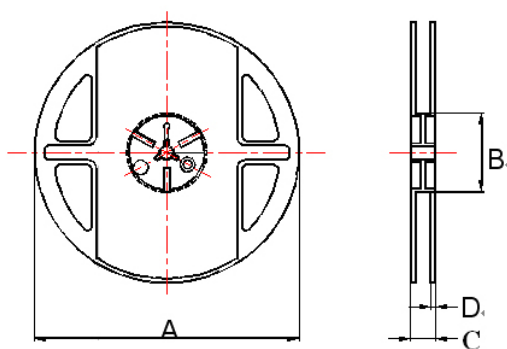
Trailer End



Leader End



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / Reel
	A	B	T	W	P	F	K	A	B	C	D	
CMF21	1.45	2.30	0.22	8	4	3.5	1.13	178	60	12	1.5	4000