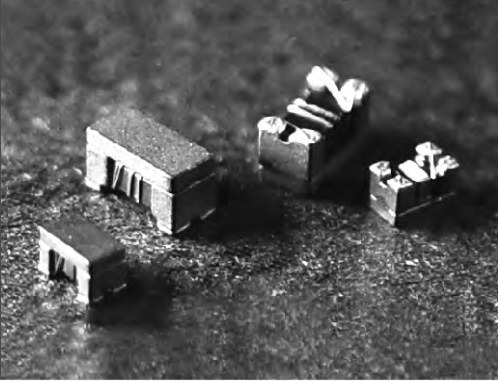


COMMON MODE FILTER

Series CM-F For USB 2.0



FEATURES

- ◆ Common mode noise suppression of signal lines in high speed and high density digital equipment Such as personal computers and peripherals. Gausstek's CM-F series does not provide distortion to high speed signal transmission due to its high coupling. The wire wound features advance in lower DC resistance and higher current tolerance, and much Stable performance.

APPLICATIONS

- ◆ Suitable for differential signal line like USB2.0, LVDs, Lan, IEEE1394 and HUB.

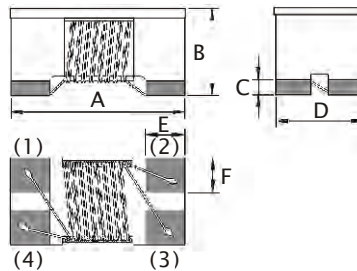
PRODUCT IDENTIFICATION

CM 20 F 12 2 S 90R
 a b c d e f g

- a : Type of products - SMD COMMON MODE FILTER
- b : Lenth (mm) - 20 : 2.0, 32 : 3.2, 45 : 4.5
- c : Material - F : F Type
- d : width (mm) - 12 : 1.2, 16 : 1.6, 25 : 2.5, 32 : 3.2
- e : Packing - PCS / REEL - 2 : 2,000, 3 : 3,000
- f : Tolerance - S : ±25%
- g : Impedance - 90R = 90 Ω, 1K = 1000 Ω

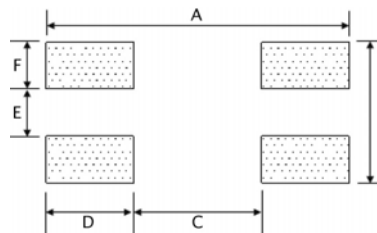
DIMENSIONS

Type	Alias in mm	Alias in inch	A	B	C ref.	D	E typ.
CM20F12	2012	0805	2.0±0.2	1.2±0.2	0.17	1.2±0.2	0.45
CM32F16	3216	1206	3.2±0.2	1.9±0.2	0.17	1.6±0.2	0.6
CM32F25	3225	1210	3.2±0.2	2.2±0.2	0.17	2.5±0.2	0.8
CM45F32	4532	1812	4.5±0.2	2.8±0.2	0.17	3.2±0.2	1

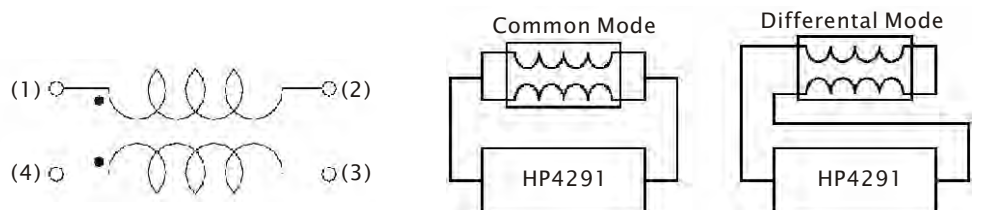


LAND PATTERNS

Type	Alias in mm	Alias in inch	A (ref.)	B (ref.)	C (ref.)	D (ref.)	E (ref.)
CM20F12	2012	0805	2.6	1.2	0.8	0.9	0.4
CM32F16	3216	1206	3.7	1.6	1.6	1.05	0.4
CM32F25	3225	1210	4.4	3.5	1.6	1.4	0.6
CM45F32	4532	1812	4.8	3.8	1.6	1.6	0.7



STRUCTURE OF TEST CIRCUIT



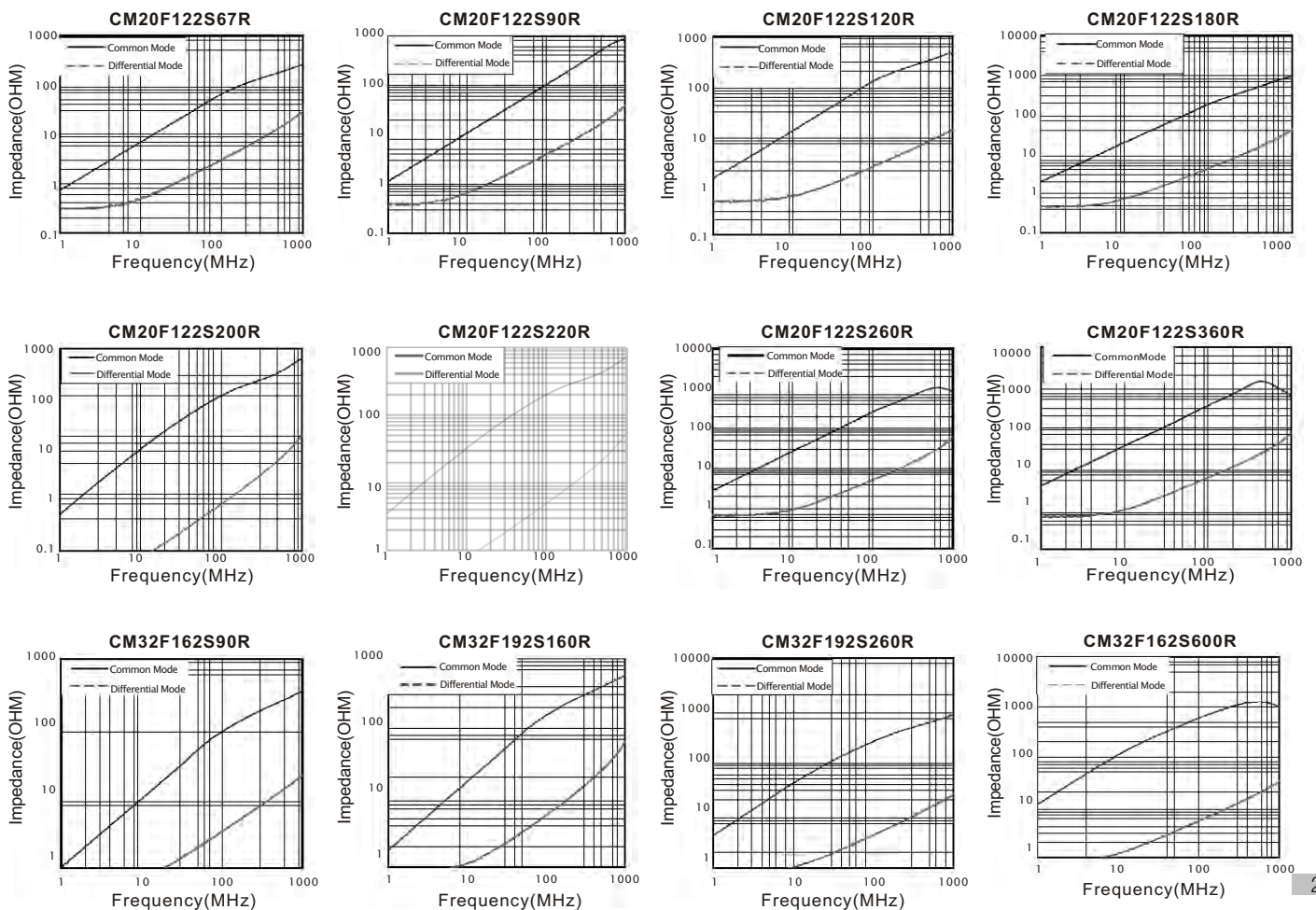
COMMON MODE FILTER

Series **CM - F** For **USB 2.0**

ELECTRICAL CHARACTERISTICS

Part Number	Alias in mm	Alias in inch	Common-Mode Impedance (Ω) at 100 MHz	RDC (Ω) max.	IDC (mA) max.	VDC (V)	Withstanding Voltage (V)	Insulation Resistance ($M\Omega$) min.
CM20F122S30R	2012	0805	30 \pm 25%	0.20	450	50	125	10
CM20F122S40R	2012	0805	40 \pm 25%	0.20	450	50	125	10
CM20F122S67R	2012	0805	67 \pm 25%	0.25	400	50	125	10
CM20F122S90R	2012	0805	90 \pm 25%	0.30	400	50	125	10
CM20F122S120R	2012	0805	120 \pm 25%	0.30	400	50	125	10
CM20F122S180R	2012	0805	180 \pm 25%	0.35	350	50	125	10
CM20F122S200R	2012	0805	200 \pm 25%	0.35	350	50	125	10
CM20F122S220R	2012	0805	220 \pm 25%	0.35	350	50	125	10
CM20F122S260R	2012	0805	260 \pm 25%	0.40	300	50	125	10
CM20F122S360R	2012	0805	360 \pm 25%	0.45	280	50	125	10
CM32F162S90R	3216	1206	90 \pm 25%	0.30	500	50	125	10
CM32F162S160R	3216	1206	160 \pm 25%	0.30	500	50	125	10
CM32F162S260R	3216	1206	260 \pm 25%	0.50	310	50	125	10
CM32F162S600R	3216	1206	600 \pm 25%	0.60	300	50	125	10
CM32F162S1K	3216	1206	1000 \pm 25%	1.00	230	50	125	10
CM32F162S2K2	3216	1206	2200 \pm 25%	1.20	200	50	125	10
CM32F252S90R	3225	1210	90 \pm 25%	0.03	1000	50	125	10
CM32F252S600R	3225	1210	600 \pm 25%	0.20	1000	50	125	10
CM32F252S1K	3225	1210	1000 \pm 25%	0.30	500	50	125	10
CM45F32IS90R	4532	1812	90 \pm 25%	0.05	2000	50	125	10
CM45F32IS600R	4532	1812	600 \pm 25%	0.24	1400	50	125	10
CM45F32IS800R	4532	1812	800 \pm 25%	0.26	1000	50	125	10
CM45F32IS1K4	4532	1812	1400 \pm 25%	0.40	1000	50	125	10
CM45F32IS2K5	4532	1812	2500 \pm 25%	0.90	200	50	125	10

Impedance & Frequency Characteristics



COMMON MODE FILTER

Series **CM - F** For USB 2.0

Impedance & Frequency Characteristics

