CHIP TYPE EMI FILTERS [CNH20 Series]

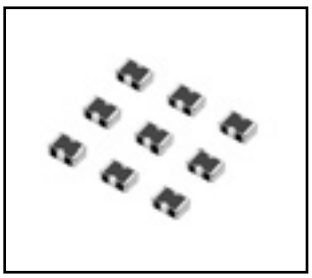
The CNH20 series is an extremely small (2.0×1.25) 3-terminal chip capacitor. It is well suited for reducing EMI noise.

■Features

- Due to its small size and low residual inductance, it performs noise reduction at higher frequencies than conventional capacitors.
- The large current specification (~ 6A) is effective in protecting the DC power line from EMI.
- Nickel and tin plated barrier terminations offer good solderability and resistance to soldering heat.
- RoHS Compliant.

■Applications

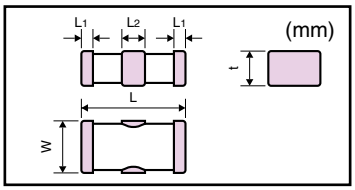
Noise reduction for computers, computer peripheral equipment, digital TV, DVD recorder, cellular telephone, automotive electronics, etc.



■Part Number System

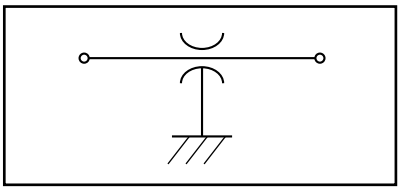
CNH	20	R	223	S	–	T	M
Series	Style 20 : 2.0×1.25 (L) (W)	Temperature characteristics C : ±30ppm/°C R : ±15% F : +30,–80%	Capacitance	Capacitance tolerance S : +50,–20% Z : +80,–20% M : ±20%		Packing form T :Taping B :Bulk	Termination M : Ni-Barrier termination

■Dimensions



Type	L	W	t	L1	L2
CNH20	2.0±0.2	1.25±0.2	0.8±0.2 1.0±0.2	0.3±0.2	0.6±0.2

■Equivalent circuit



■Part Number List • Specifications

Part number	Capacitance	Capacitance tolerance	Rated voltage	Rated current	IR	DC resistance	Temp. range
CNH20C221M–□M	220pF	±20%	100V DC	1A DC	10,000MΩmin.	0.08mΩmax.	–55~+125°C
*CNH20R332S–□M	3,300pF	+50, –20%	50V DC	2A DC		0.06mΩmax.	
CNH20R223S–□M	22,000pF			1A DC		0.08mΩmax.	
*CNH20R333S–□M	33,000pF			2A DC		0.06mΩmax.	
CNH20F104Z– □M	100,000pF	+80, –20%	25V DC		1,000MΩmin.	0.05mΩmax.	–25~+85°C
*CNH20R224M–□M	220,000pF	±20%	16V DC		500MΩmin.	0.05mΩmax.	–55~+85°C
*CNH20R474M–□M	470,000pF			3A DC		0.03mΩmax.	
*CNH20R105M–□M	1μF			4A DC		0.02mΩmax.	
*CNH20R475M–□M	4.7μF		6.3V DC	5A DC	100MΩmin.	0.015mΩmax.	
*CNH20R106M–□M	10μF			6A DC	50MΩmin.	0.01mΩmax.	

□ : "T" stands for taping package and "B" stands for bulk package. * t=1.0mm

■Insertion loss (Reference)

CNH20 TYPE