

TCF series

FEATURES

1. S.M.T. type noise filter.
2. Suitable for flow and reflow soldering.
3. Closed magnetic circuit avoids crosstalk.
4. High reliability.
5. Plated terminals provide excellent solder resistance.
6. The products contain no lead and also support lead-free soldering.

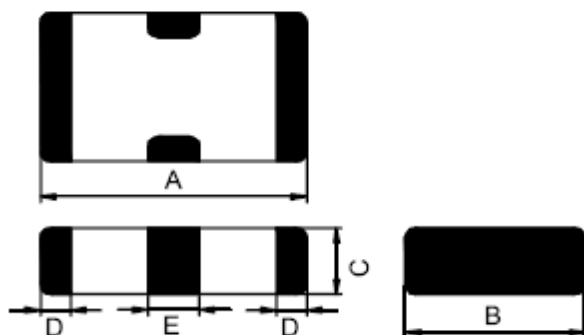


APPLICATIONS

- Noise elimination for I/O lines of notebook PCs, digital TVs and VTRs, Printers, hard disk drives.

PARTNUMBER

DIMENSIONS



TCF	2012	N	220	T	20	F	V
A	B	C	D	E	F	G	H

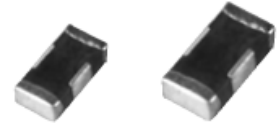
A: Series
 B: Dimension A x B
 C: Material
 D: Capacitance (pF) 220=22pF
 E: Packaging T=Taping and Ree
 F: Rated Current 20=2000mA
 G: Lead Free Code
 H: ID Code

Size	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
2012	2.00±0.20	1.25±0.20	0.90±0.20	0.30±0.20	0.40±0.30
3216	3.20±0.20	1.60±0.20	0.90±0.20	0.40±0.30	1.0±0.30



EMI/EMC Solution Parts

SMD /Filter



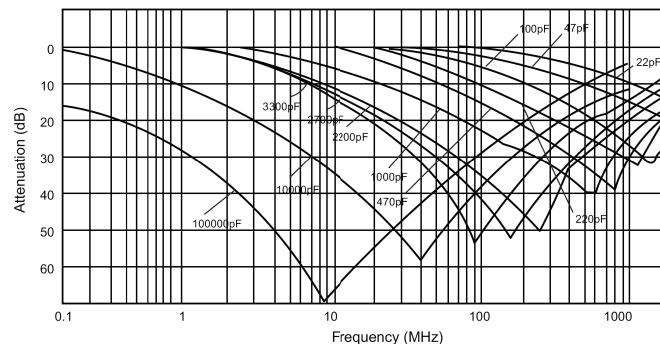
TCF 2012

Part Number	Capacitance (pF)	Capacitance Tolerance(%)	Rated Voltage (V)	Rated Current (mA)	Insulation Resistance (MΩ)	DCR (mΩ) Max	Operating Temperature Range(°C)
TCF2012N220T20	22	20~+50	50	2000	1000	60	40~+85
TCF2012N470T20	47	20~+50	50	2000	1000	60	40~+85
TCF2012N101T20	100	20~+50	50	2000	1000	60	40~+85
TCF2012N221T20	220	20~+50	50	2000	1000	60	40~+85
TCF2012N471T20	470	20~+50	50	2000	1000	60	40~+85
TCF2012X102T20	1000	20~+50	50	2000	1000	60	40~+85
TCF2012X222T20	2200	20~+50	50	2000	1000	60	40~+85
TCF2012X272T20	2700	20~+50	50	2000	1000	60	40~+85
TCF2012X332T20	3300	20~+50	50	2000	1000	60	40~+85
TCF2012X103T20	10000	20~+50	50	2000	1000	60	40~+85
TCF2012Y104T20	100000	20~+50	25	2000	1000	60	40~+85
TCF2012Y105T20	1000000	20~+80	16	2000	500	60	40~+85

TCF 3216

Part Number	Capacitance (pF)	Capacitance Tolerance(%)	Rated Voltage (V)	Rated Current (mA)	Insulation Resistance (MΩ)	DCR (mΩ) Max	Operating Temperature Range(°C)
TCF3216N220T20	22	20~+50	50	2000	1000	60	40~+85
TCF3216N470T20	47	20~+50	50	2000	1000	60	40~+85
TCF3216N101T20	100	20~+50	50	2000	1000	60	40~+85
TCF3216N221T20	220	20~+50	50	2000	1000	60	40~+85
TCF3216N471T20	470	20~+50	50	2000	1000	60	40~+85
TCF3216X102T20	1000	20~+50	50	2000	1000	60	40~+85
TCF3216X222T20	2200	20~+50	50	2000	1000	60	40~+85
TCF3216X272T20	2700	20~+50	50	2000	1000	60	40~+85
TCF3216X332T20	3300	20~+50	50	2000	1000	60	40~+85
TCF3216X103T20	10000	20~+50	50	2000	1000	60	40~+85
TCF3216Y104T20	100000	20~+50	25	2000	1000	60	40~+85
TCF3216Y105T20	1000000	20~+80	25	2000	500	60	40~+85

Attenuation VS. Frequency Comparison



Attenuation VS. Frequency Comparison

