

High Current Feedthru Capacitors



W2H/W3H Series

GENERAL DESCRIPTION

High current feedthru capacitors are designed as a broad-band EMI filter that is specially designed to have high current handling capability. These SMT feedthru filters offer an optimized frequency response with high attenuation across a wide RF spectrum due to optimized parallel and series inductances. These W2H/W3H feedthru filters can actually replace discrete L/C filter networks.

FEATURES

- Low parallel inductance provides significant noise reduction in circuits with operating frequencies up to 5GHz
- Broad frequency response with high attenuation
- High rated current – up to 2A for 0805 and up to 5A for 0612
- Small size – 0805 and 0612 case size
- Reeling in accordance with EIA-481

MECHANICAL CHARACTERISTICS

- Available in EIA 0805 and 0612 cases
- Plated Tin over Nickel Barrier
- Packaged in Tape & Reel

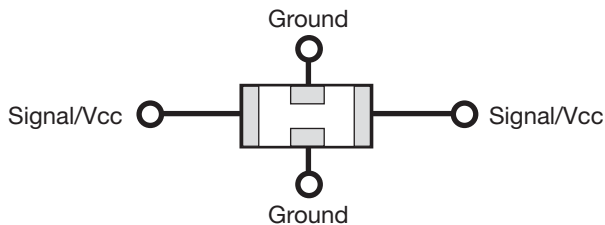
TYPICAL APPLICATIONS

- High current power (Vcc) lines
- PA decoupling
- DC:DC converters
- Regulators
- Power supervisory circuits

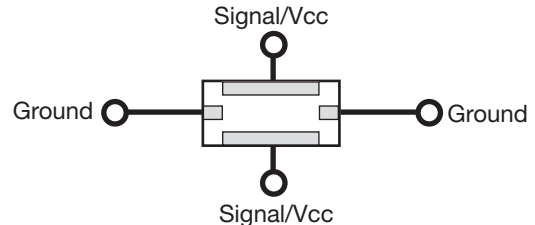
HOW TO ORDER

W2H1	5	C	473	8	A	T	1A
							
Size & Style W2H1=0805 W3H1=0612 W=Plated Ni & Sb L=Plated SnPb	Voltage 3=25v 5=50v 1=100v	Dielectric A=NP0 C=X7R	Capacitance Code	Capacitance Tolerance 8=+50/-20% M=±20%	Failure Rate A=Not Applicable	Terminations T=Plated Ni & Sn B=Plated SnPb	Packaging 1A=7" Reel 4000 pcs 3A=13" Reel 4000 pcs

PINOUT CONFIGURATION



W2H1 – 0805 Style



W3H1 – 0612 Style



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ELECTRICAL PARAMETERS

Insulation Resistance	1000 M Ω Minimum
DC Resistance	<0.150 Ω
Operating Temperature	-55C to +125C

CAPACITOR VALUES

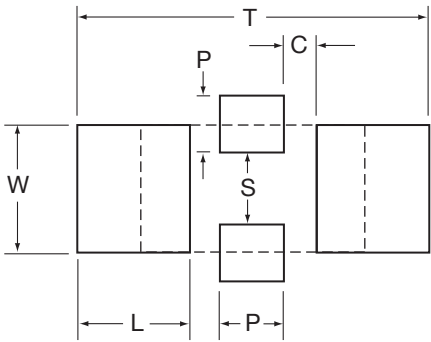
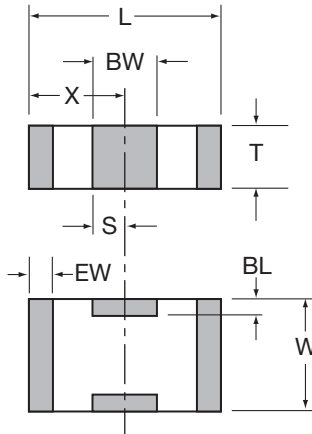
Part Number	Size	Dielectric	Capacitance	Tolerance	Voltage	Current
W2H13C 104 8AT	0805	X7R	100,000pF	+50%, -20%	25V	2A
W2H15C 473 8AT	0805	X7R	47,000pF	+50%, -20%	50V	2A
W2H15C 223 8AT	0805	X7R	22,000pF	+50%, -20%	50V	1A
W2H15C 103 8AT	0805	X7R	10,000pF	+50%, -20%	50V	1A
W2H15C 102 8AT	0805	X7R	1,000pF	+50%, -20%	50V	1A
W2H11A 471 8AT	0805	NP0	470pF	+50%, -20%	100V	0.5A
W2H11A 221 8AT	0805	NP0	220pF	+50%, -20%	100V	0.5A
W2H11A 101 8AT	0805	NP0	100pF	+50%, -20%	100V	0.5A
W2H11A 470 8AT	0805	NP0	47pF	+50%, -20%	100V	0.5A
W2H11A 220 8AT	0805	NP0	22pF	+50%, -20%	100V	0.5A
W3H13C 104 8AT	0612	X7R	100,000pF	+50%, -20%	25V	up to 5A
W3H15C 473 8AT	0612	X7R	47,000pF	+50%, -20%	50V	up to 5A
W3H15C 223 8AT	0612	X7R	22,000pF	+50%, -20%	50V	up to 4A
W3H15C 103 8AT	0612	X7R	10,000pF	+50%, -20%	50V	up to 3A
W3H11A 471 8AT	0612	NP0	470pF	+50%, -20%	100V	up to 4A
W3H11A 221 8AT	0612	NP0	220pF	+50%, -20%	100V	up to 4A
W3H11A 101 8AT	0612	NP0	100pF	+50%, -20%	100V	up to 4A
W3H11A 470 8AT	0612	NP0	47pF	+50%, -20%	100V	up to 3A
W3H11A 220 8AT	0612	NP0	22pF	+50%, -20%	100V	up to 3A

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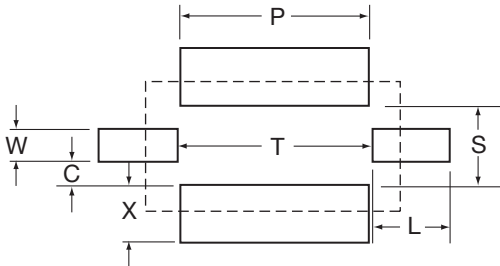
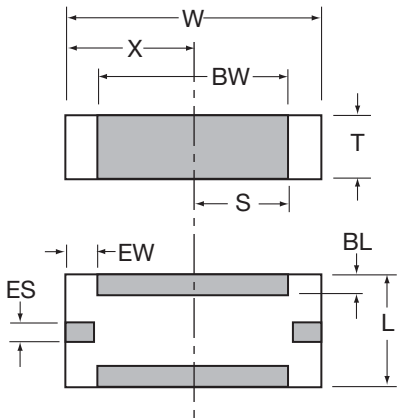


W2H/W3H Series

PHYSICAL DIMENSIONS AND PAD LAYOUT



W2H1 - 0805 Style



W3H1 - 0612 Style

PHYSICAL DIMENSIONS

	L	W	T	BW	BL	ES	EW	X	S
W2H1- 0805 MM (in.)	2.01 ± 0.20 (0.079 ± 0.008)	1.25 ± 0.20 (0.049 ± 0.008)	1.14 Max. (0.045 Max.)	0.46 ± 0.10 (0.018 ± 0.004)	0.18 ± 0.25 -0.08 (0.007 + 0.010 -0.003)	NA	0.25 ± 0.13 (0.010 ± 0.005)	1.02 ± 0.10 (0.040 ± 0.004)	0.23 ± 0.05 (0.009 ± 0.002)
W3H1- 0612 MM (in.)	1.60 ± 0.20 (0.063 ± 0.008)	3.20 ± 0.20 (0.126 ± 0.008)	1.22 Max. (0.048 Max.)	2.80 ± .127 (0.110 ± 0.005)	0.18 ± 0.25 -0.08 (0.007 + 0.010 -0.003)	0.41 ± 0.10 (0.016 ± 0.004)	0.41 ± 0.10 (0.016 ± 0.004)	1.60 ± 0.10 (0.063 ± 0.004)	1.40 ± 0.07 (0.055 ± 0.003)

PAD DIMENSIONS

	T	P	S	W	L	C	X
W2H1- 0805 MM (in.)	3.45 (0.136)	0.51 (0.020)	0.76 (0.030)	1.27 (0.050)	1.02 (0.040)	0.46 (0.018)	NA
W3H1- 0612 MM (in.)	2.54 (0.100)	3.05 (0.120)	1.12 (0.044)	.460 (0.018)	.610 (0.024)	.330 (0.013)	.710 (0.028)



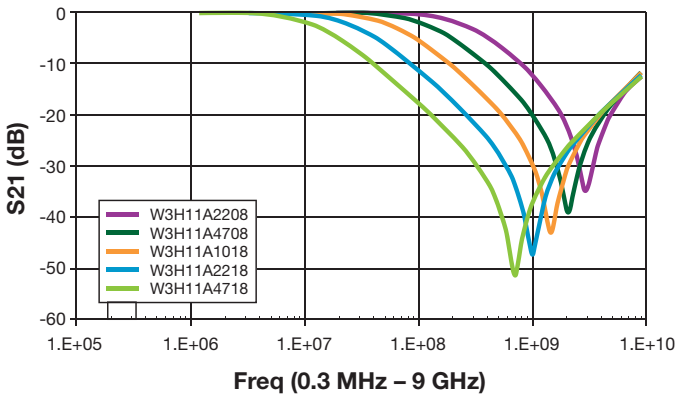
High Current Feedthru Capacitors



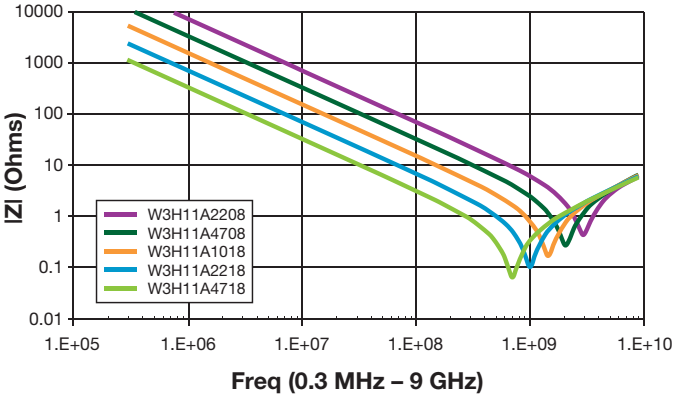
W2H/W3H Series

PERFORMANCE CHARACTERISTICS

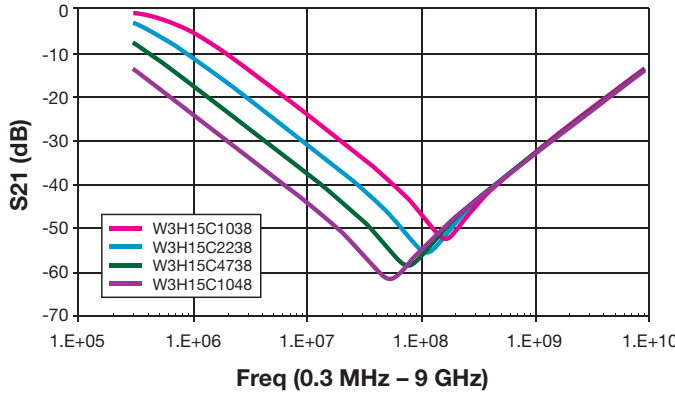
S21 0612 – 100V



IMPEDANCE 0612 – 100V



S21 0612 – 50V / 25V



IMPEDANCE 0612 – 50V / 25V

