

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

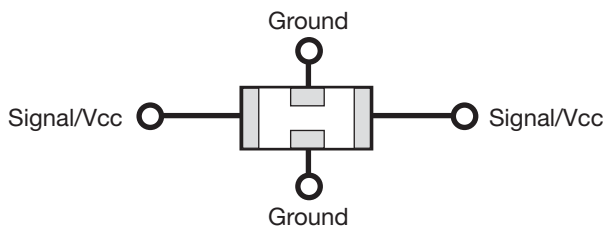
TYPICAL APPLICATIONS

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

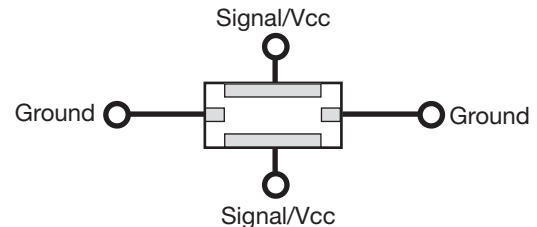
HOW TO ORDER

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

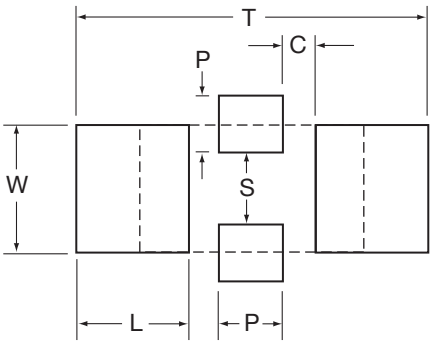
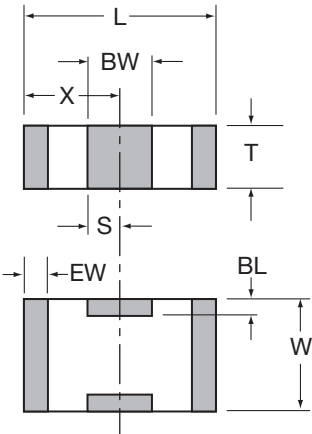
Part Number	Size	Dielectric	Capacitance	Tolerance	Voltage	Current
W2H13C 104 8AT	0805	X7R	100,000pF	+50%, -20%	25V	2A
W2H15C 473 8AT	0805	X7R	47,000pF	+50%, -20%	50V	2A
W2H15C 223 8AT	0805	X7R	22,000pF	+50%, -20%	50V	1A
W2H15C 103 8AT	0805	X7R	10,000pF	+50%, -20%	50V	1A
W2H15C 102 8AT	0805	X7R	1,000pF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

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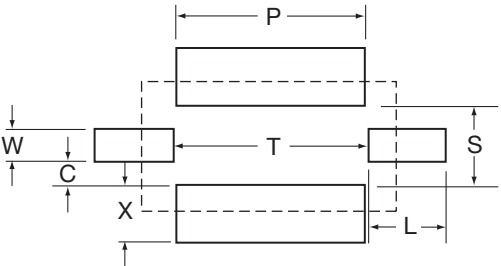
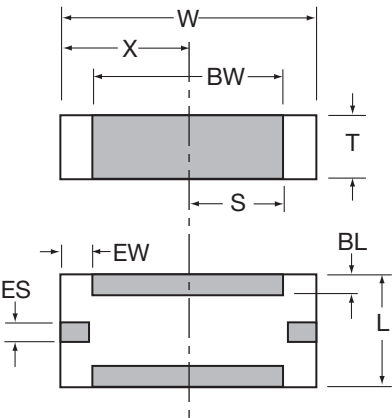


W2H/W3H Series

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)



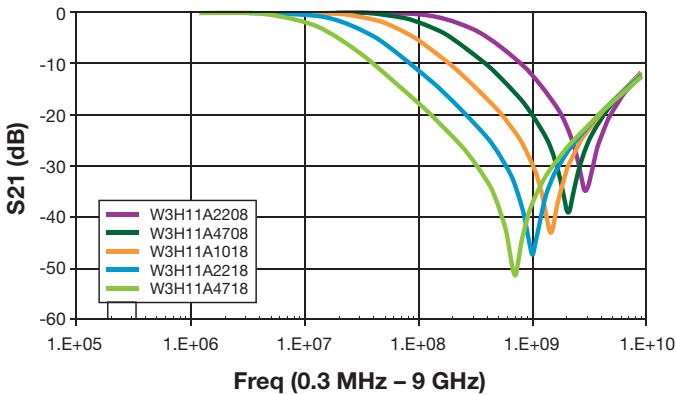
High Current Feedthru Capacitors



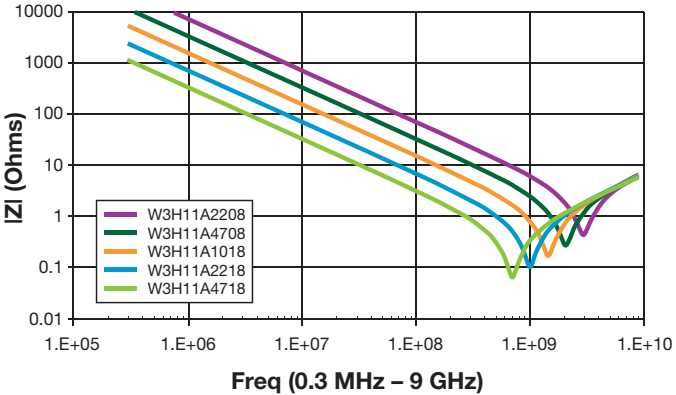
W2H/W3H Series

PERFORMANCE CHARACTERISTICS

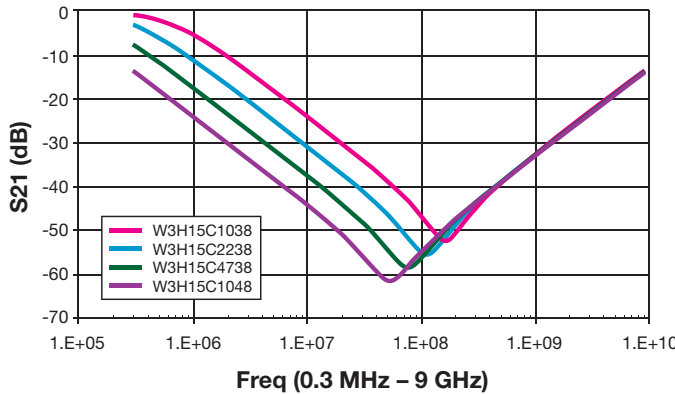
S21 0612 – 100V



IMPEDANCE 0612 – 100V



S21 0612 – 50V / 25V



IMPEDANCE 0612 – 50V / 25V

