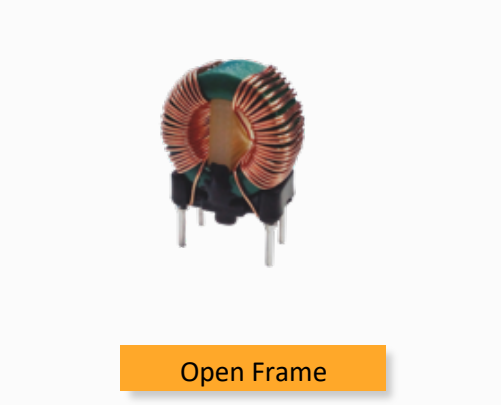


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samples

AMFC-NZ



The AMFC-NZ is a cost-effective open frame common-mode EMC filter. The AMFC-NZ series has an operating temp range from -40 to 125C and is also designed to meet the UL508 isolation requirement of 2000VDC with maximum input current up to 3A which is a good fit for applications related to industrial controls.

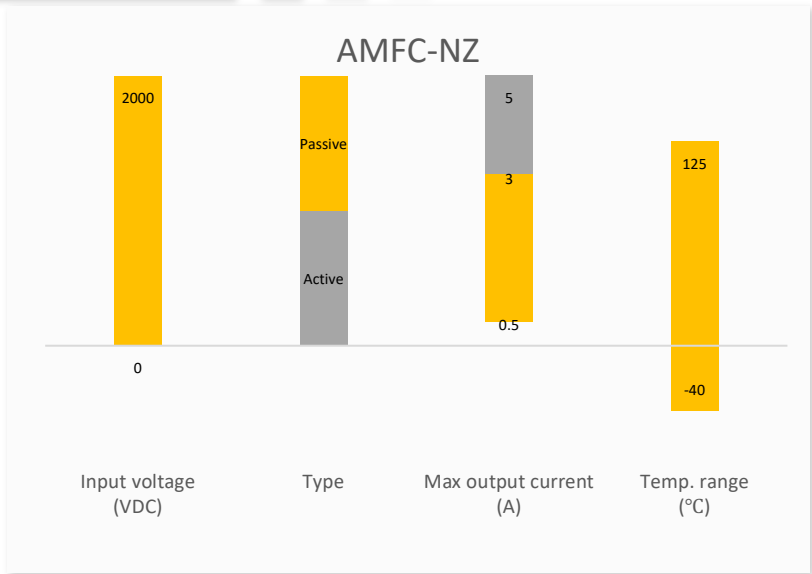
It is compact and has a variety of inductance value options that can be used for many industrial designs and applications

Features

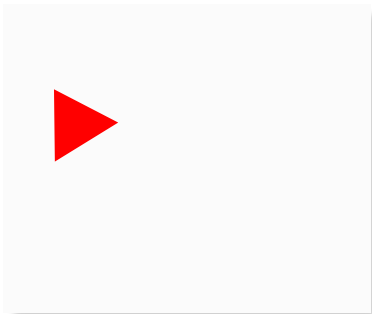


- Operating Temp: -40 °C to +125 °C
- Attenuation Spec Up To 54dB@500kHz
- Max Input Current Up To 3.0A
- Meet UL508 Isolation Requirement

Summary



Training



Product Training Video  
(click to open)



Application Notes

Applications



Power Grid



Industrial



Telecom



Instrumentation

## Models & Specifications

Models					
Model	Inductance (uH)	Max current (A)	DCR (mΩ)	Weight (g)	Size (L*W*H)
AMFC004-40NZ	4*2	40.0	2*2	30.9	See Figure 7
AMFC2-12NZ	2000*2	12.0	145*2	25.2	See Figure 4
AMFC045-6NZ	450*2	6.0	9*2	6.4	See Figure 6
AMFC4-6NZ	4000*2	6.0	35*2	20	See Figure 5
AMFC035-3NZ	350*2	3.0	30*2	3.9	See Figure 1
AMFC1-3NZ	1000*2	3.0	40*2	4.5	See Figure 1
AMFC22-3NZ	2200*2	3.0	50*2	4.5	See Figure 1
AMFC47-3NZ	4700*2	3.0	70*2	4.5	See Figure 1
AMFC10-3NZ	10000*2	3.0	50*2	13.8	See Figure 3
AMFC047-1.3NZ	470*2	1.3	250*2	4	See Figure 1
AMFC1-1NZ	1000*2	1.0	70*2	4.5	See Figure 1
AMFC22-1NZ	2200*2	1.0	90*2	4.5	See Figure 1
AMFC33-1NZ	3300*2	1.0	100*2	4.5	See Figure 1
AMFC47-1NZ	4700*2	1.0	140*2	4.5	See Figure 1
AMFC68-1NZ	6800*2	1.0	160*2	6.5	See Figure 2
AMFC82-1NZ	8200*2	1.0	180*2	6.5	See Figure 2
AMFC20-1NZ	20000*2	1.0	240*2	5.6	See Figure 8
AMFC10-0.5NZ	10000*2	0.5	500*2	4.5	See Figure 1
AMFC15-0.5NZ	15000*2	0.5	600*2	4.5	See Figure 1
AMFC22-0.5NZ	22000*2	0.5	650*2	4.5	See Figure 1

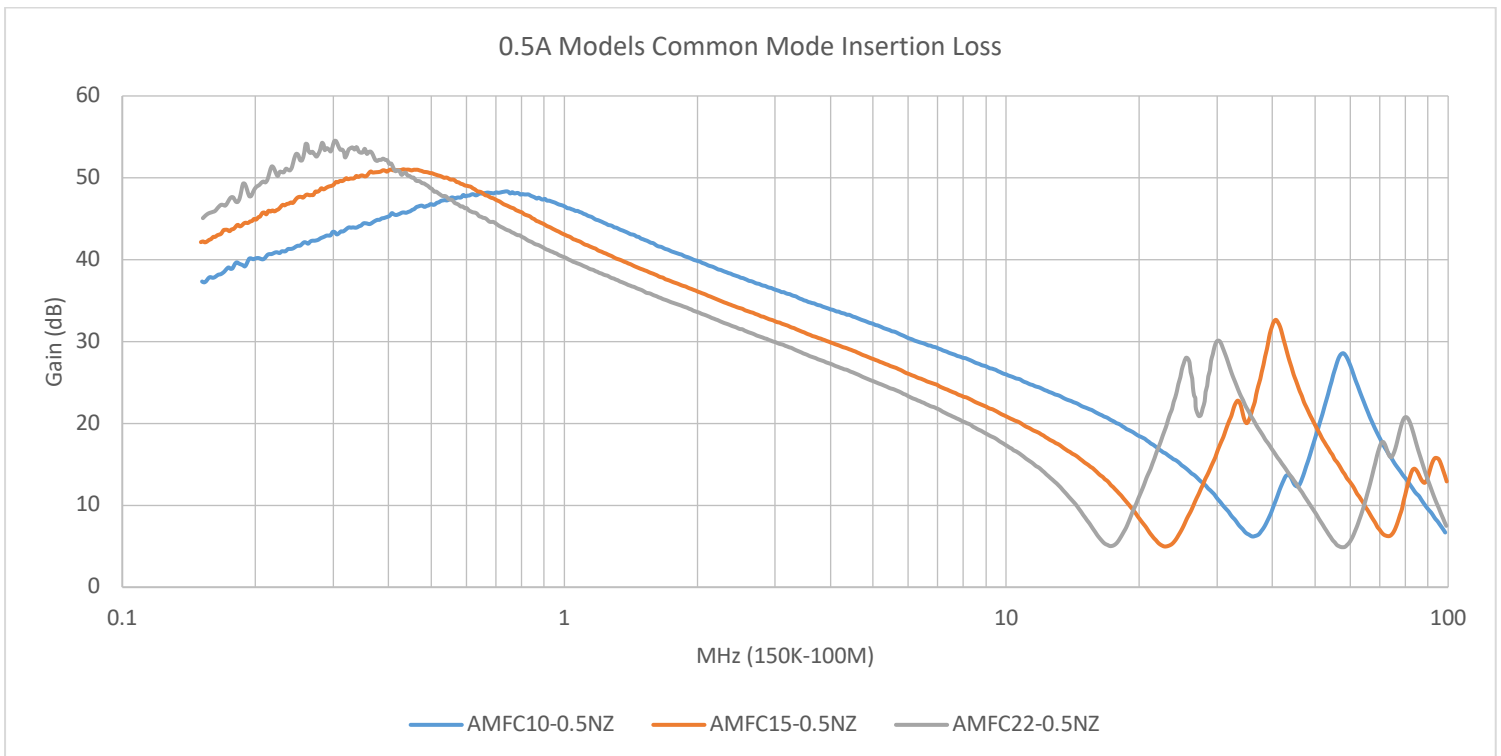
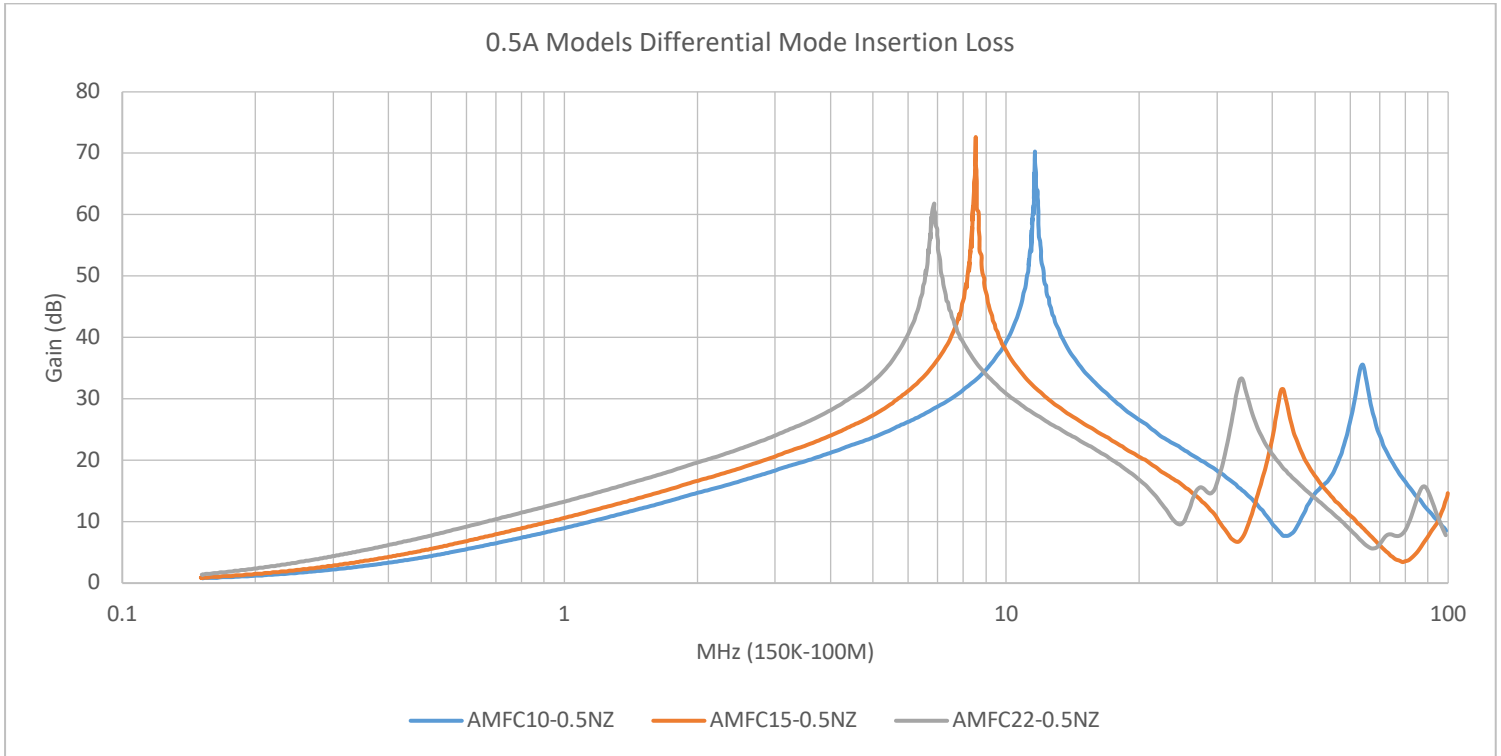
General Specifications				
Parameters	Conditions	Typical	Maximum	Units
Operating temperature	Others	-40 to +105		°C
	AMFC047-1.3NZ	-40 to +125		°C
Storage temperature	Others	-40 to +105		°C
	AMFC047-1.3NZ	-40 to +125		°C
Storage humidity			95	%RH
Inductance tolerance	Others, $F_{osc}=1\text{KHz}$ , $V_{osc}=0.3\text{V}$	-35		%
	AMFC035-3NZ, $F_{osc}=1\text{KHz}$ , $V_{osc}=0.3\text{V}$	-50		%
	AMFC047-1.3NZ, $F_{osc}=100\text{KHz}$ , $V_{osc}=0.1\text{Vac}$	-50		%
Withstand voltage	Leakage current 1mA	>2000		VDC
	Leakage current 5mA, AMFC10-3NZ, AMFC2-12NZ, coil to coil	>1500		VAC
	Leakage current 5mA, AMFC10-3NZ, AMFC2-12NZ, coil to core	>1000		VAC
Vibration	AMFC10-3NZ, AMFC2-12NZ, AMFC045-6NZ, AMFC4-6NZ, AMFC004-40NZ	IEC60077, IEC 61373, category 1 class B		

NOTE: Operating temperature range includes inductor self heating.

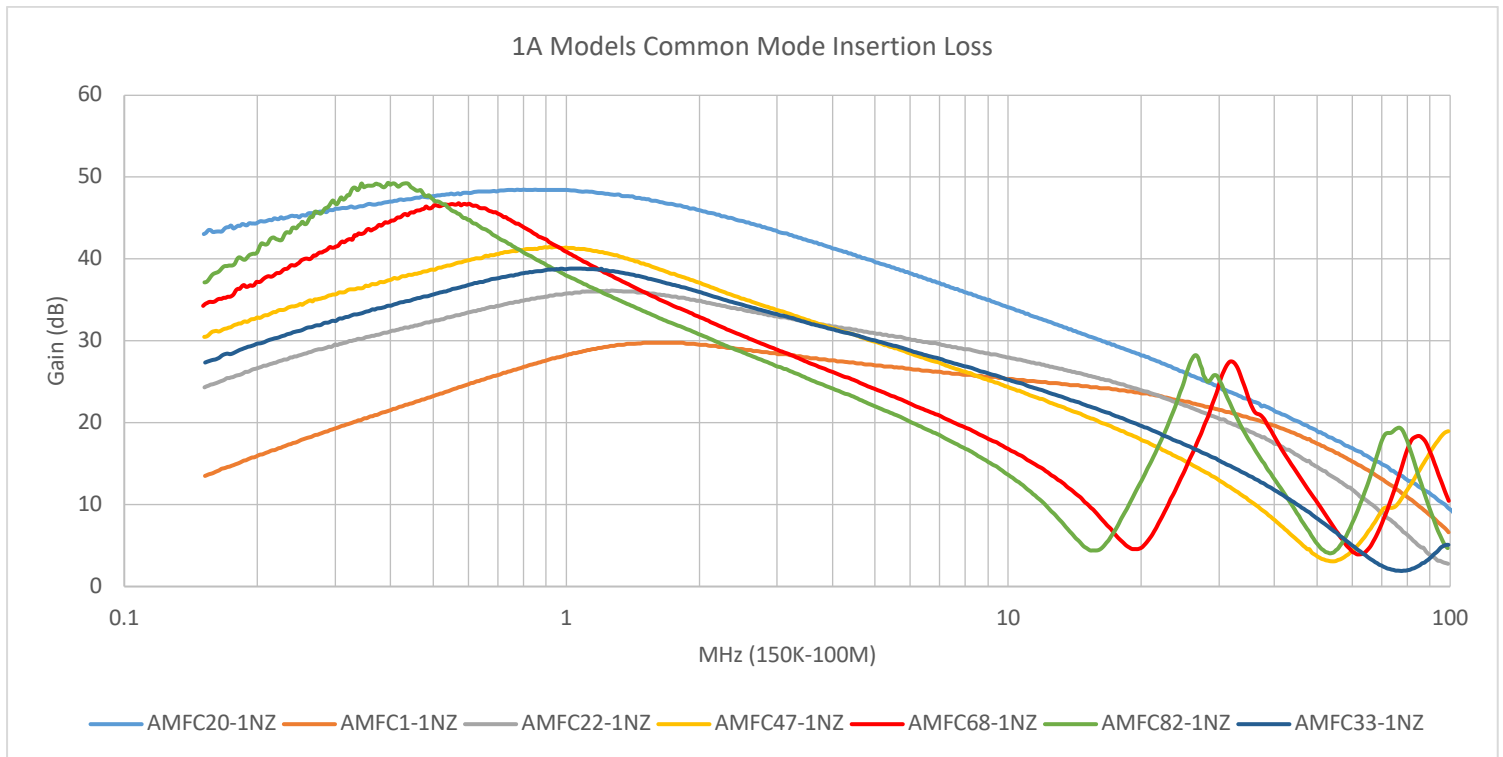
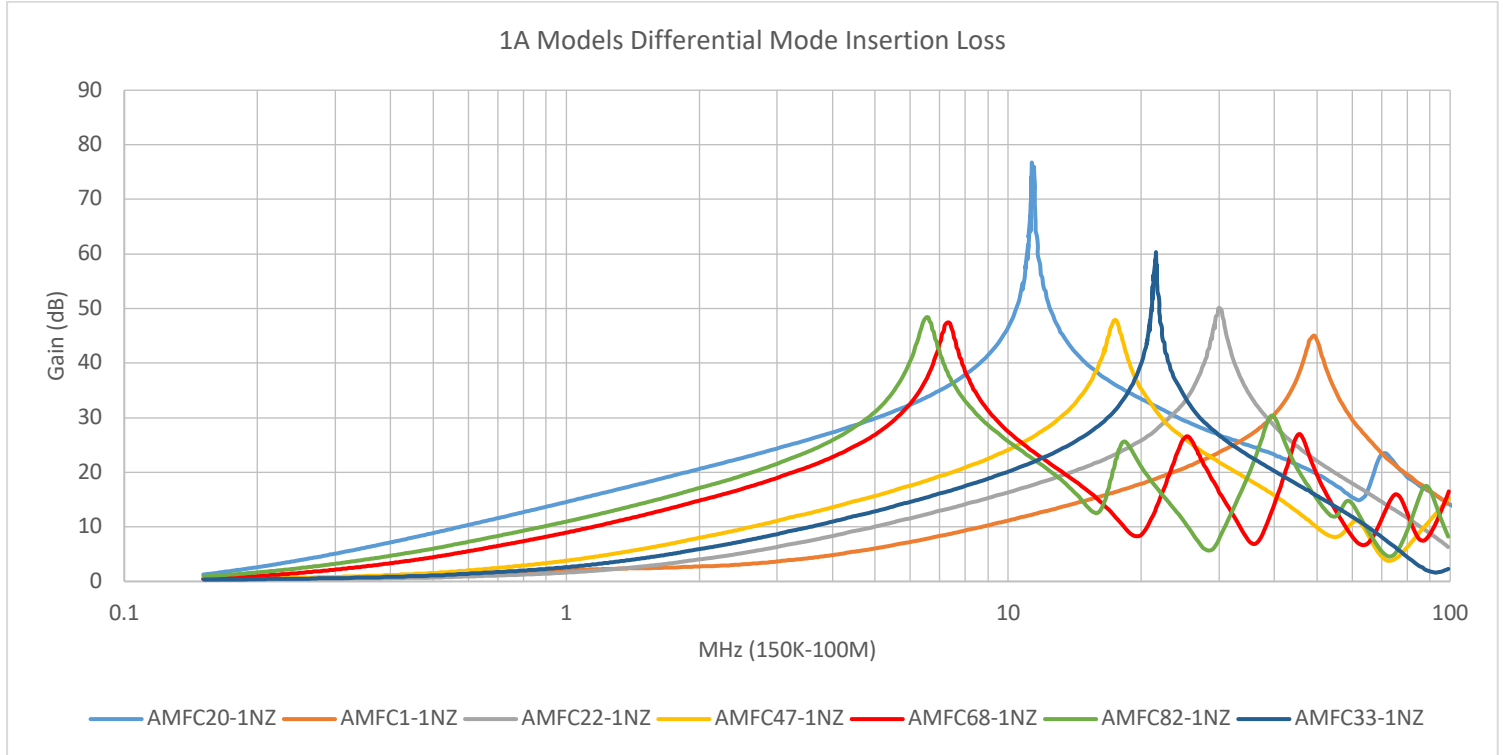
Insertion loss specifications



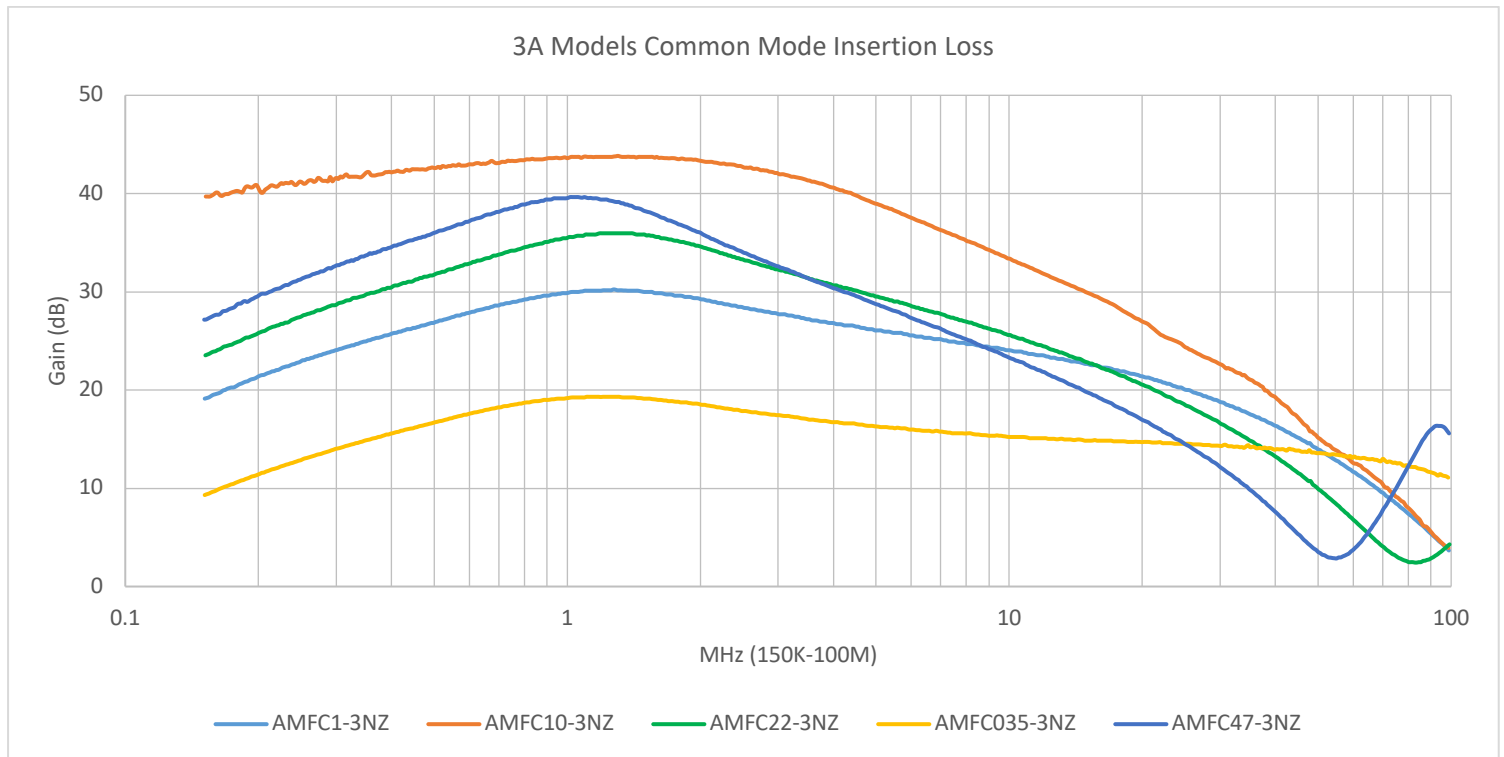
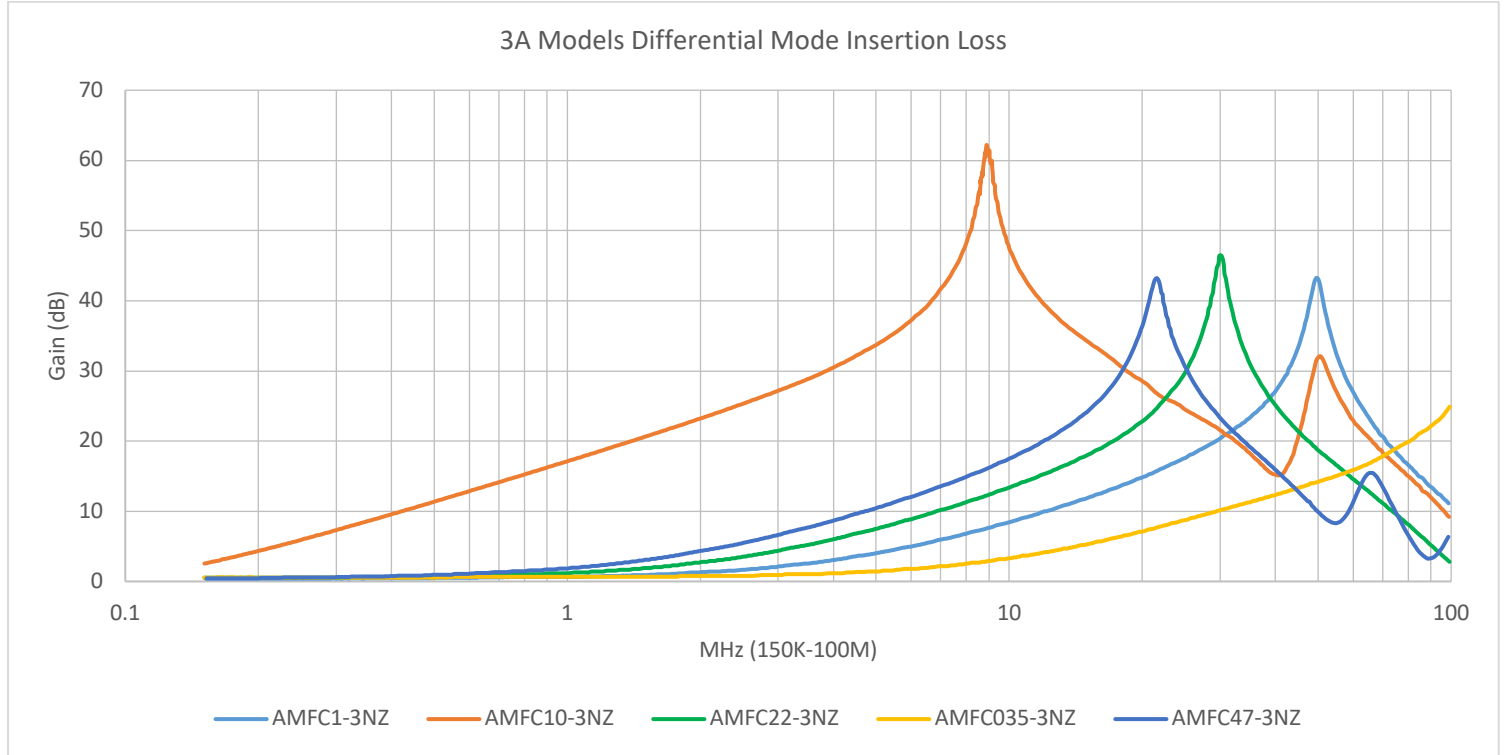
0.5A Models



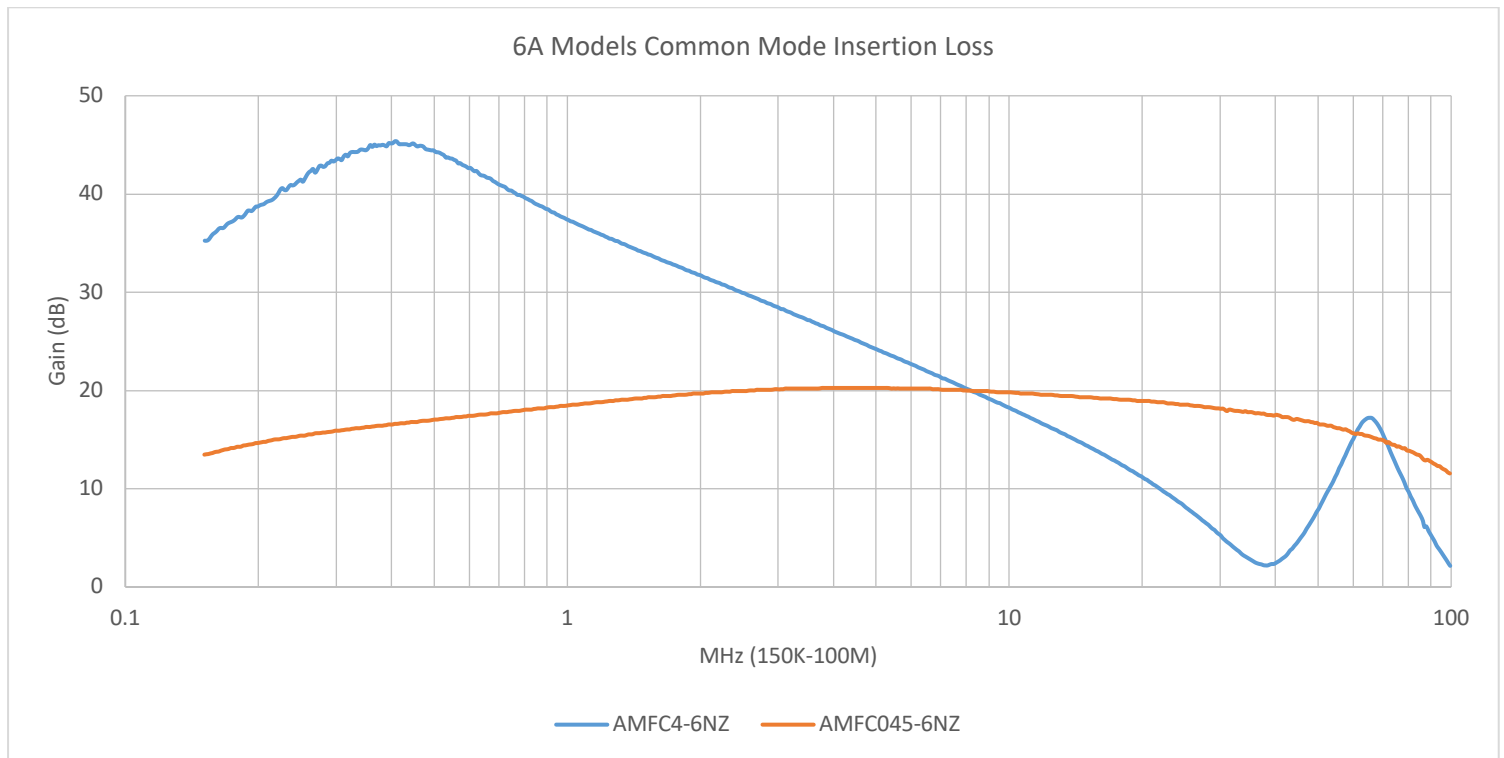
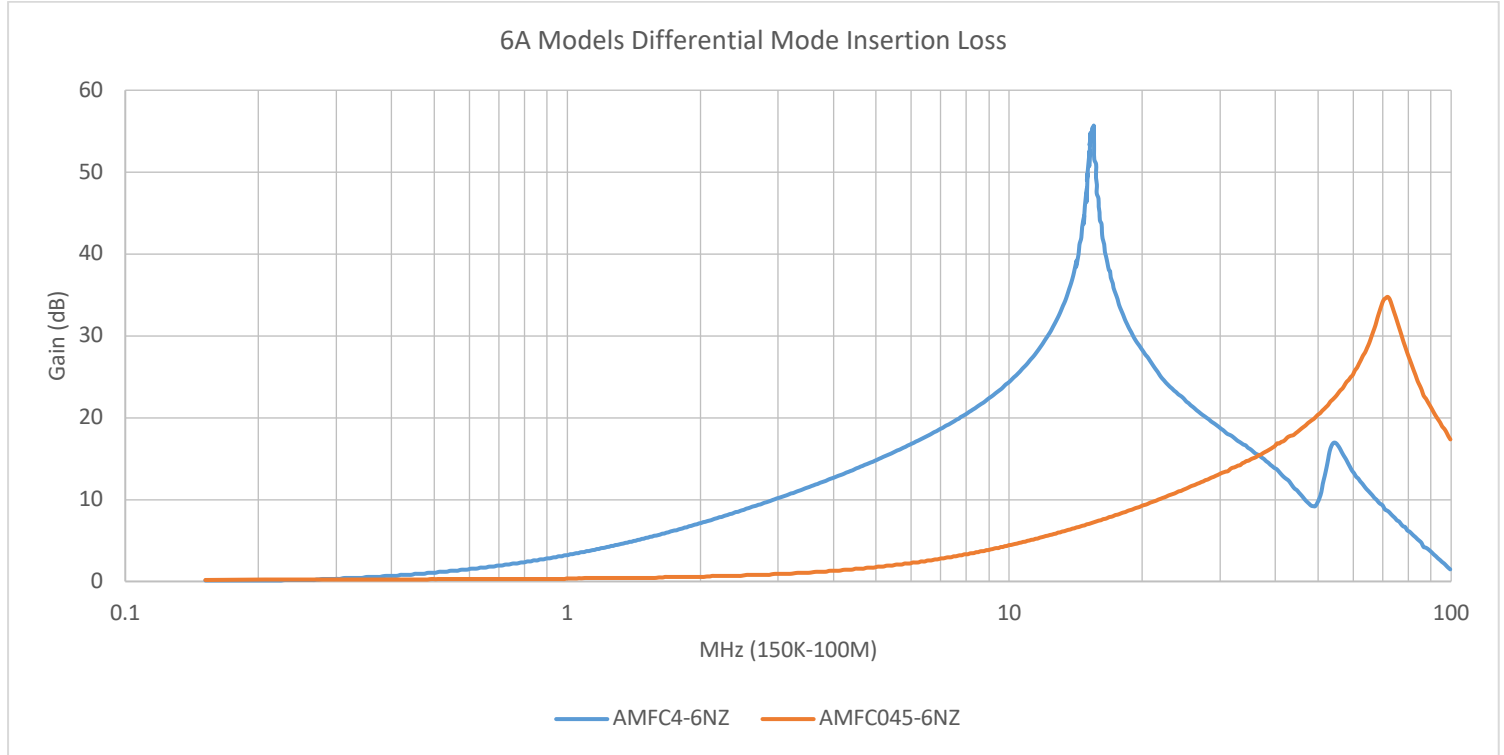
### 1A Models



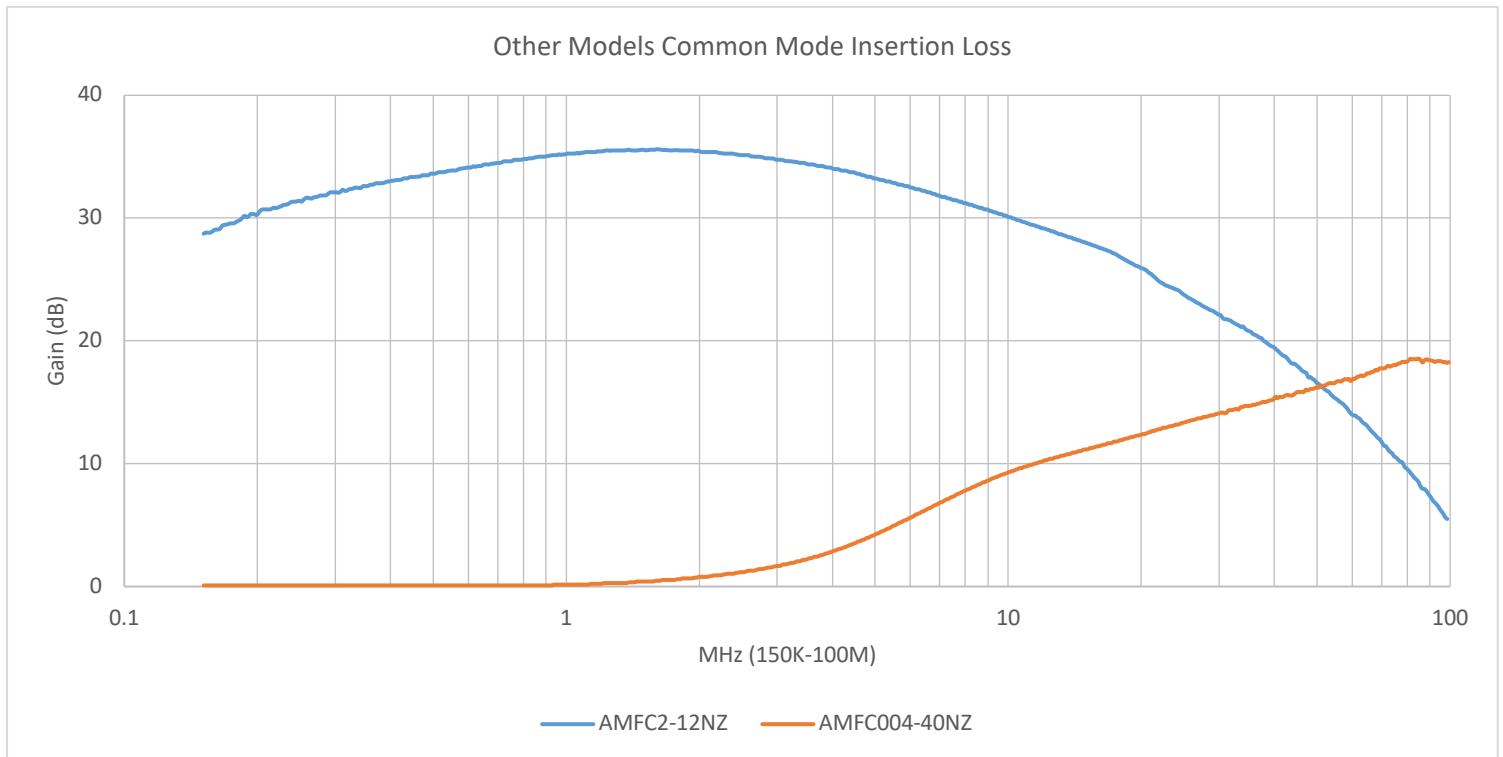
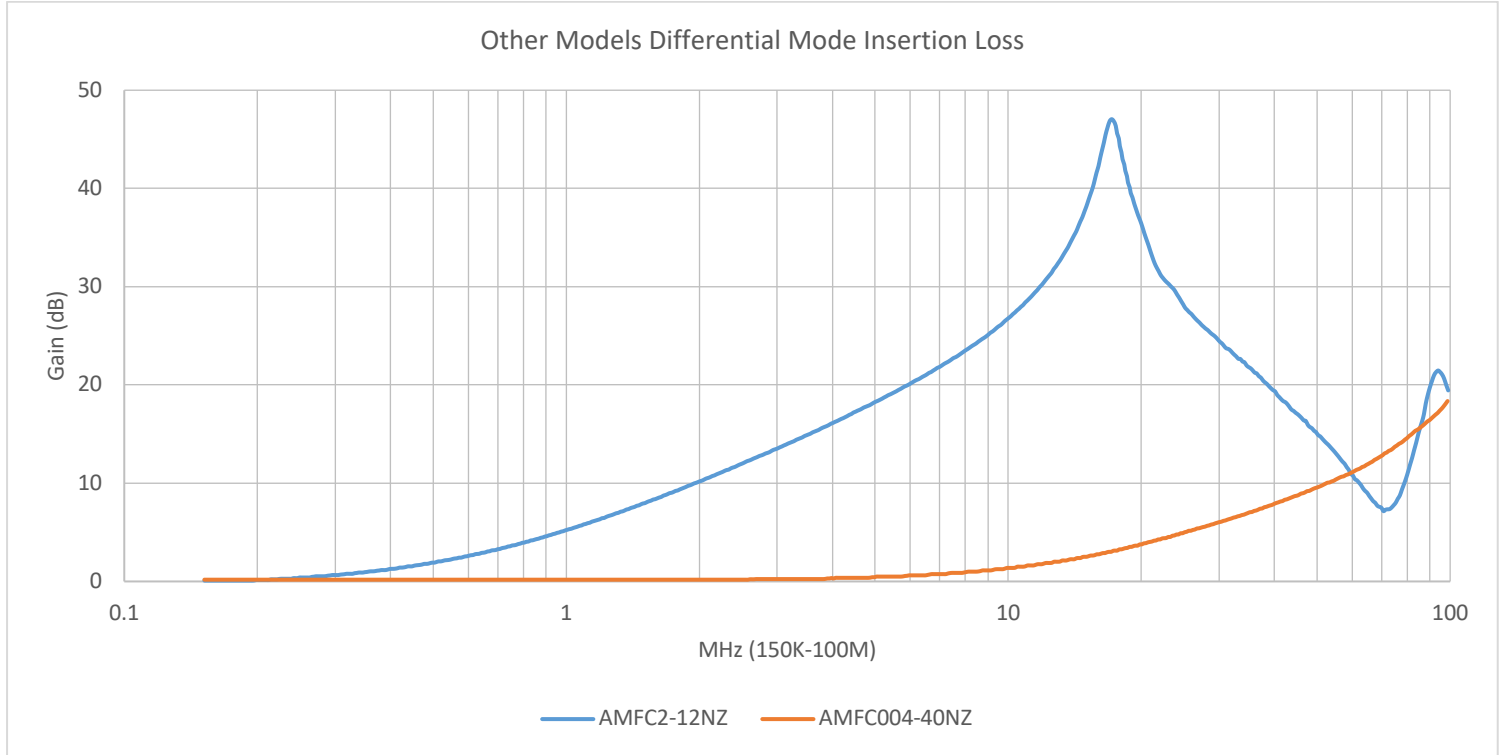
### 3A Models



## 6A Models



### 12A & 40A Models



Dimensions

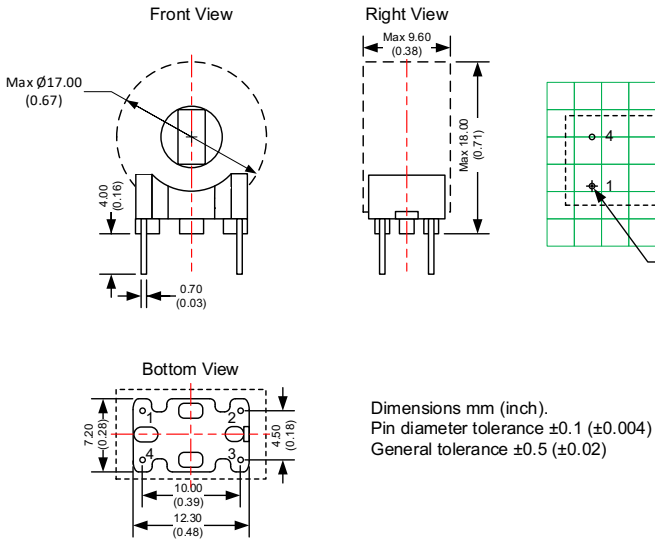


Figure 1

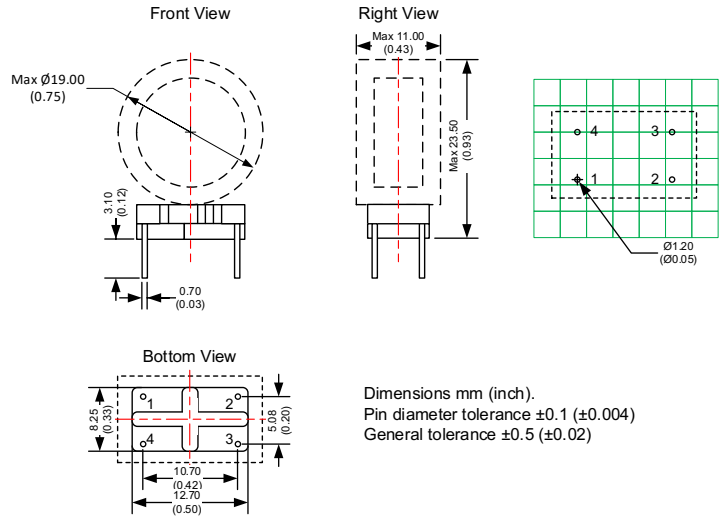


Figure 2

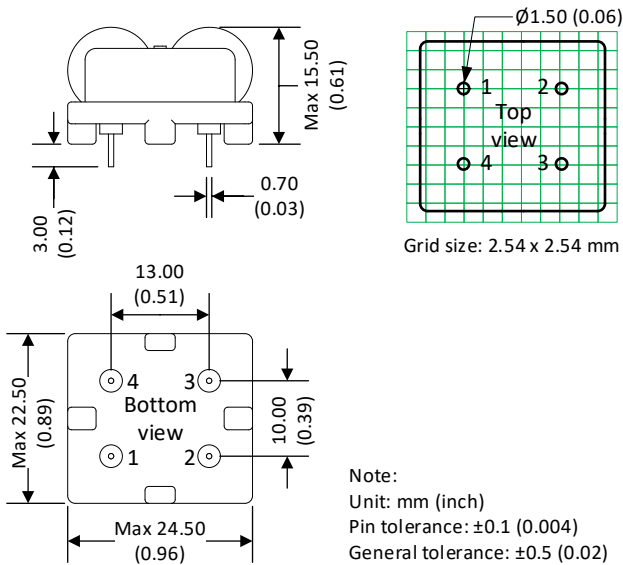


Figure 3

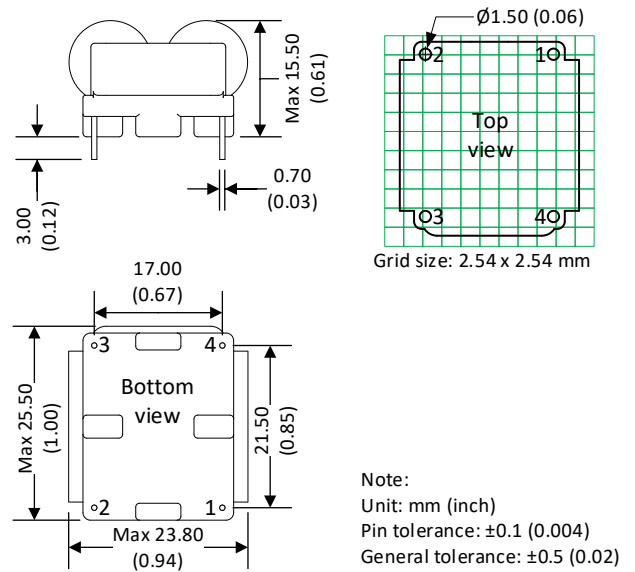


Figure 4



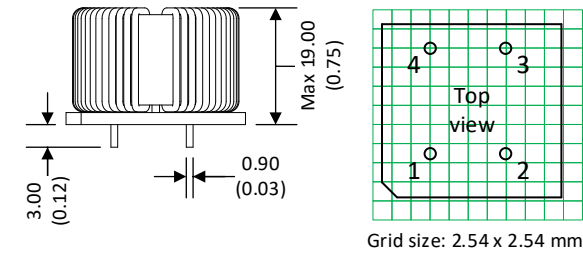


Figure 5

Note:  
Unit: mm (inch)  
Pin tolerance:  $\pm 0.1$  (0.004)  
General tolerance:  $\pm 0.5$  (0.02)

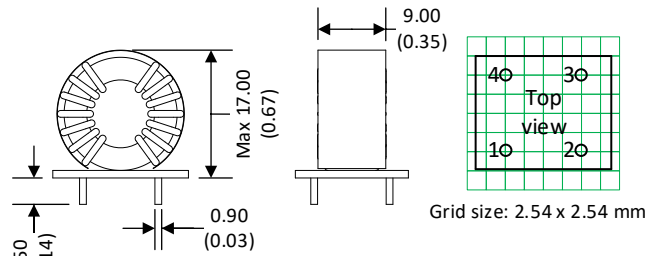


Figure 6

Note:  
Unit: mm (inch)  
Pin tolerance:  $\pm 0.1$  (0.004)  
General tolerance:  $\pm 0.5$  (0.02)

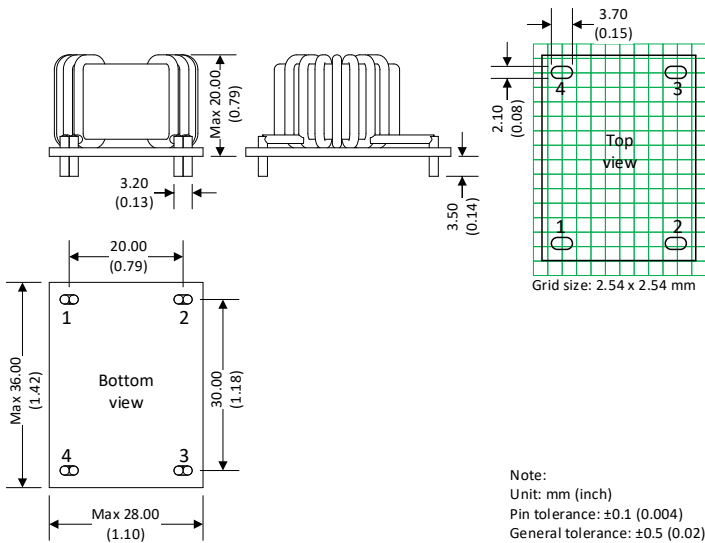


Figure 7

Note:  
Unit: mm (inch)  
Pin tolerance:  $\pm 0.1$  (0.004)  
General tolerance:  $\pm 0.5$  (0.02)

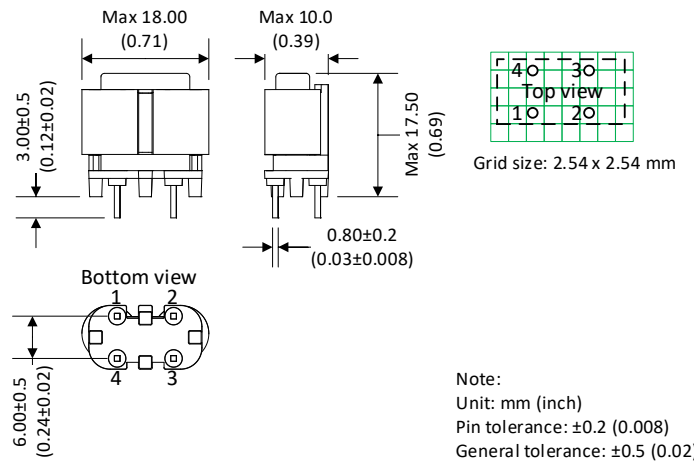
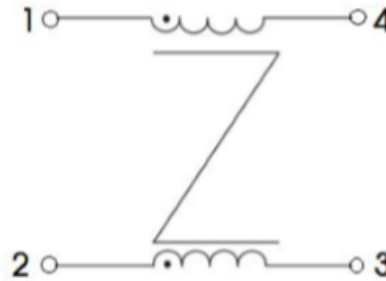


Figure 8

Note:  
Unit: mm (inch)  
Pin tolerance:  $\pm 0.2$  (0.008)  
General tolerance:  $\pm 0.5$  (0.02)

Pin function



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