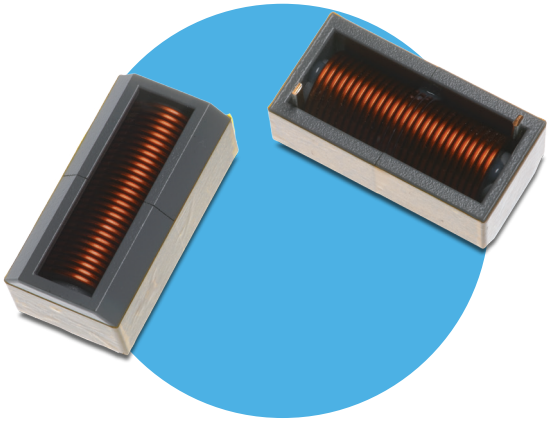
Magnetics

Power Inductor

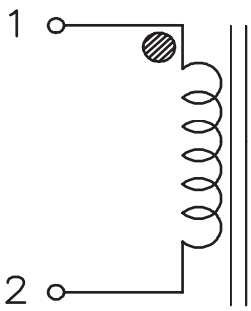
MODEL HA55

- Operating Temperature Range -40°C to +155°C
- High inductance, high efficiency and excellent current handling
- Use as DC-DC converter and in high current applications, suitable for industrial as well as automotive application
- RoHS Compliant
- AEC-Q200 Certified



All parts are Pb-free and comply with EU Directive 2011/65/EU (RoHS2)

Electrical Schematic



Specifications @ 25°C

Part Number	Inductance 100kHz, 100mV (µH) TYP	@Rated Current Inductance 100kHz, 100mV (µH) TYP	I_{rated} Rated Current (A)	I_{sat} Saturation Current (A)	DC Resistance		SRF MHz Type	Figure
					mΩ Typ	mΩ Max		
HA55-3623200LF	20.00	14.50	33.00	35.0	3.35	3.85	14.0	1
HA55-3023115LF	11.50	8.24	39.00	43.0	2.30	2.76	33.0	2
HA55-2223070LF	7.00	5.33	40.00	48.0	1.70	2.00	33.0	3
HA55-3023130LF	13.00	9.33	37.00	40.0	2.50	3.25	19.0	4
HA55L-3623220LF*	22.00	13.00	34.00	26.0	3.35	3.85	12.0	1
HA55L-3023135LF*	13.50	8.42	39.00	30.0	2.30	2.76	33.0	2
HA55L-2223088LF*	8.83	5.52	41.00	33.0	1.70	2.00	36.0	3
HA55L-3023163LF*	16.30	9.38	37.00	27.0	2.50	3.25	25.0	4
HA55L-3623400LF*	40.00	24.00	26.00	20.0	5.70	6.20	8.25	1
HA55L-4523500LF*	50.00	26.00	32.00	20.0	7.25	8.35	6.85	5

Notes : (1) Inductance is measured at 100kHz, 0.1Vrms, 0Adc.
(2) The rated current is the approximate DC current at which ΔT is approximately 60°C. This current is determined by soldering the unit on a typical application PCB, and then applying the current to the unit for 30 minutes.
(3) Isat is the saturation current at which inductance rolls off approximately 30% from its initial unbias inductance value.

* Low cost version

General Note
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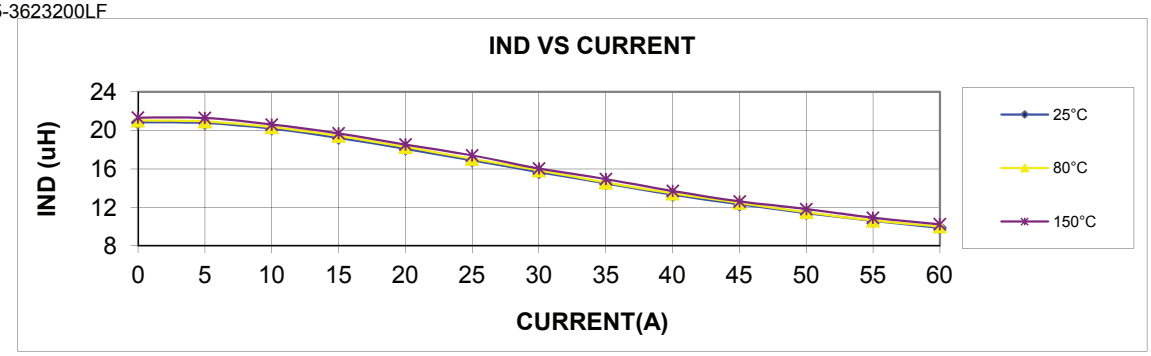
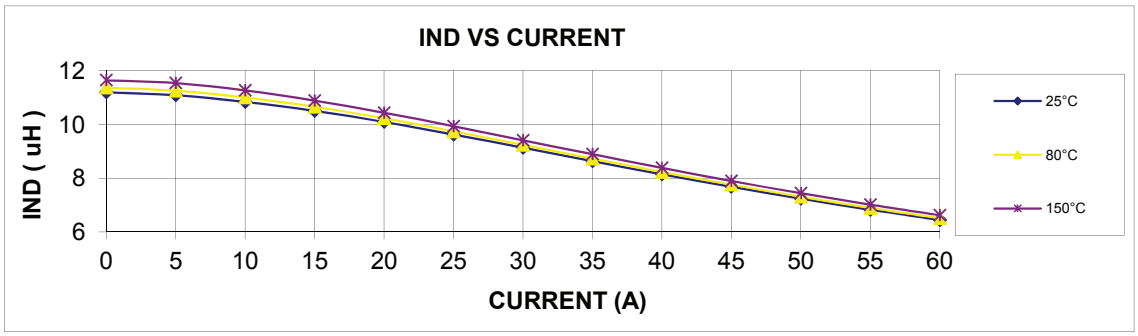
MODEL HA55

Electrical Characteristics

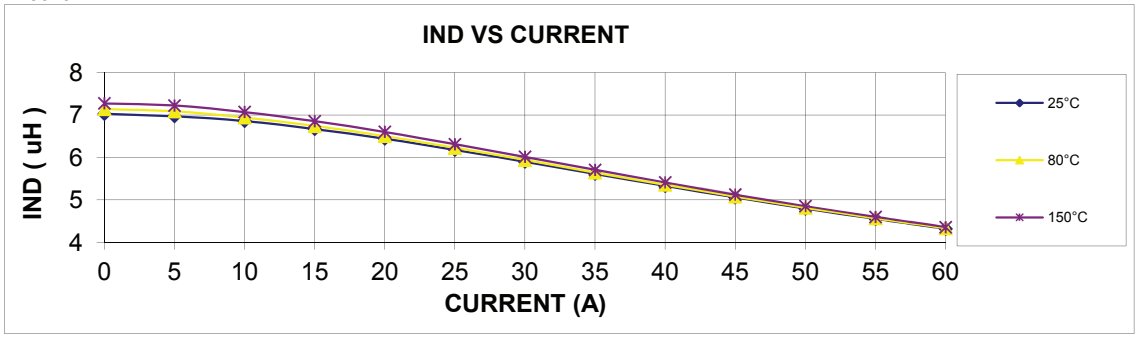
HA55-3623200LF



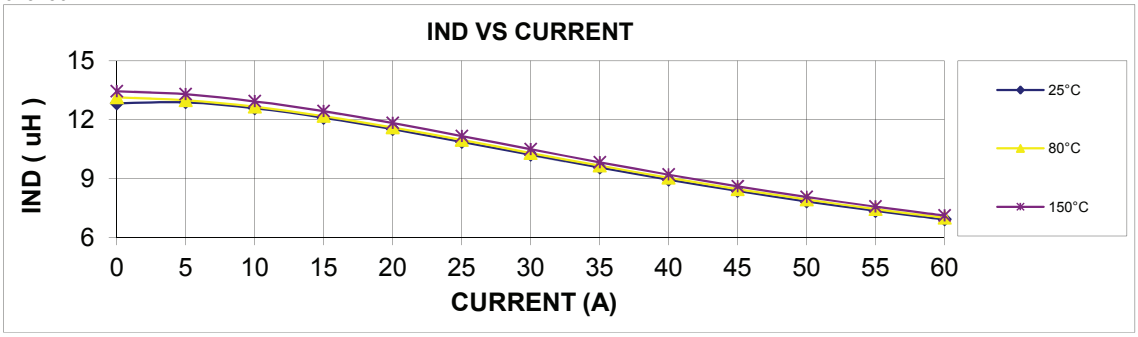
HA55-3023115LF



HA55-2223070LF



HA55-3023130LF



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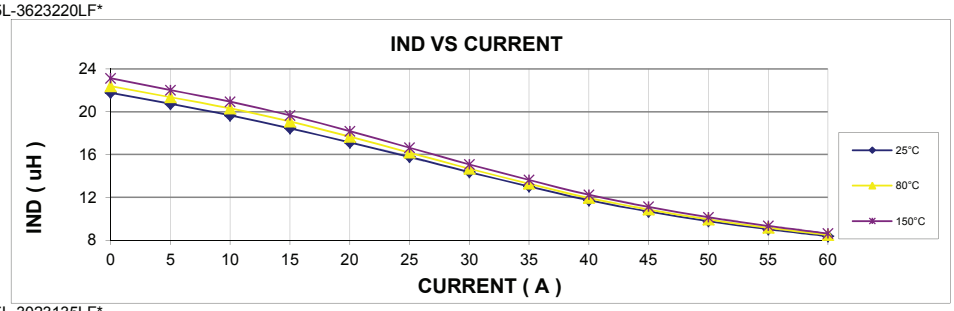
MODEL HA55

Electrical Characteristics

HA55L-3623220LF*



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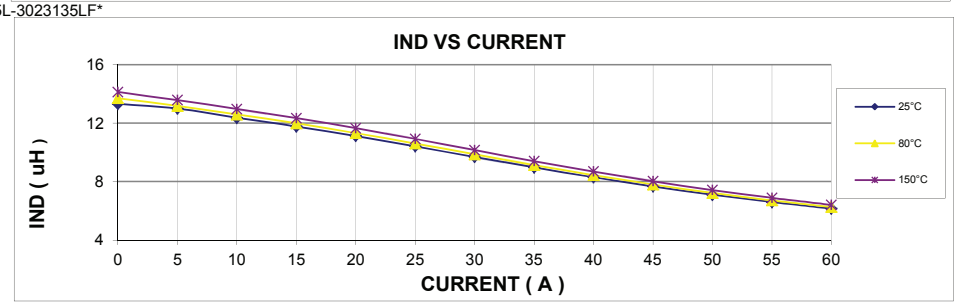
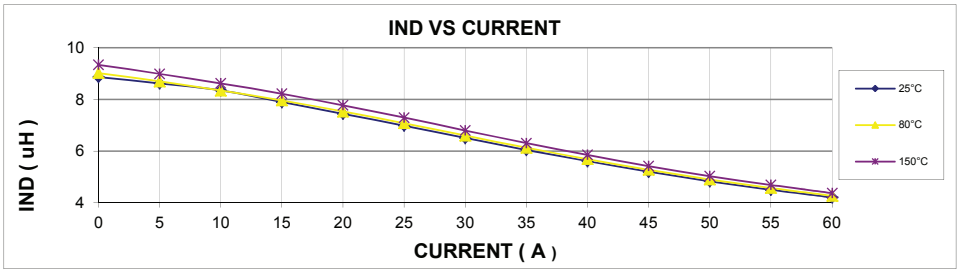
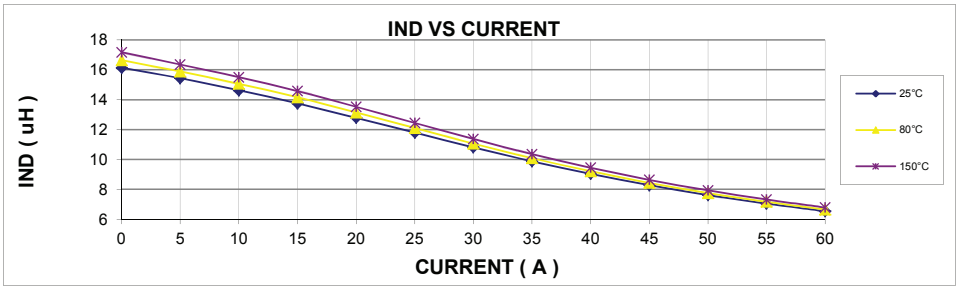


HA55L-2223088LF*



HA55L-3023163LF*



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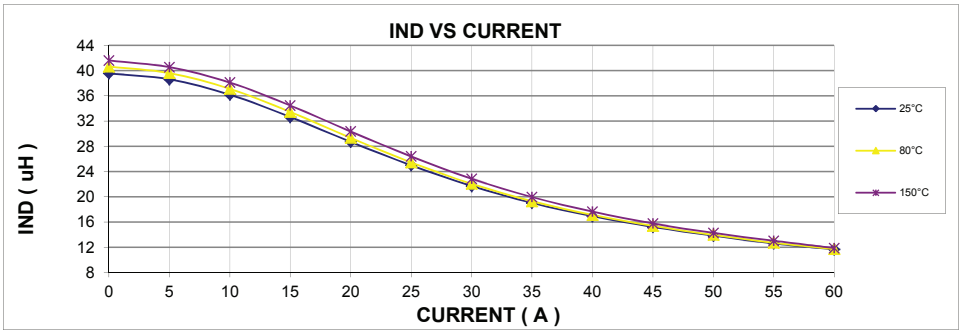

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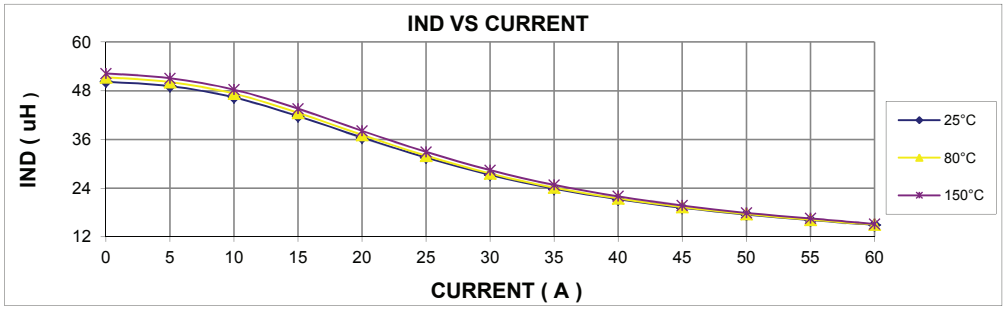
MODEL HA55

Electrical Characteristics

HA55L-4523500LF*



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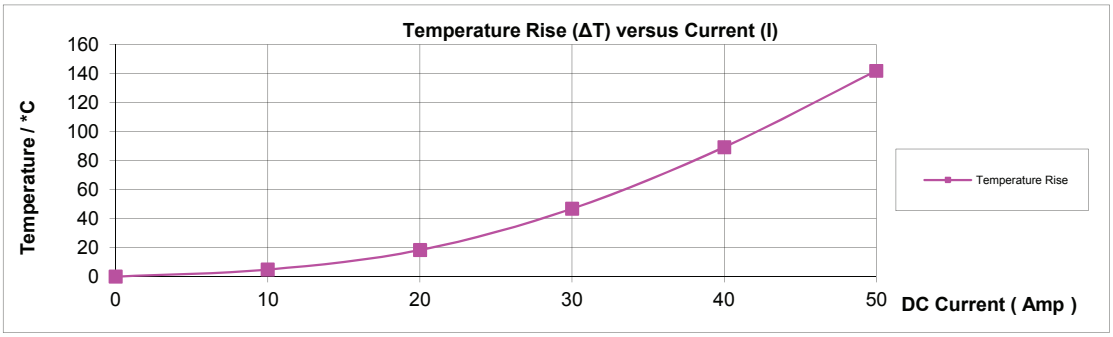
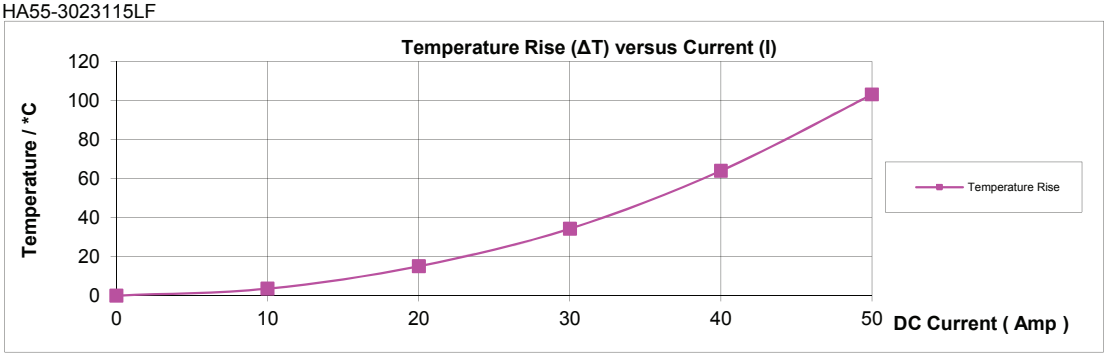
MODEL HA55

Electrical Characteristics

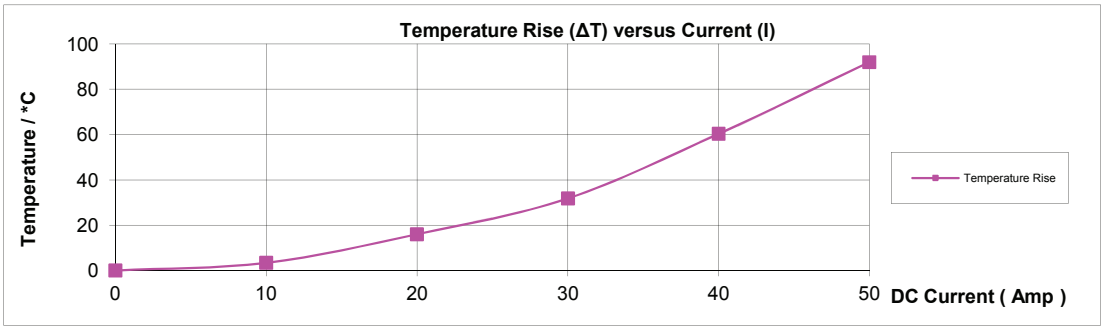
HA55-3623200LF



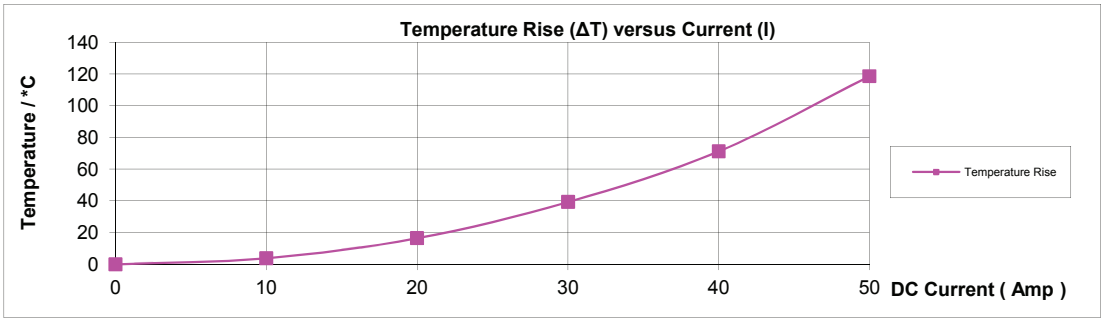
HA55-3023115LF



HA55-2223070LF



HA55-3023130LF



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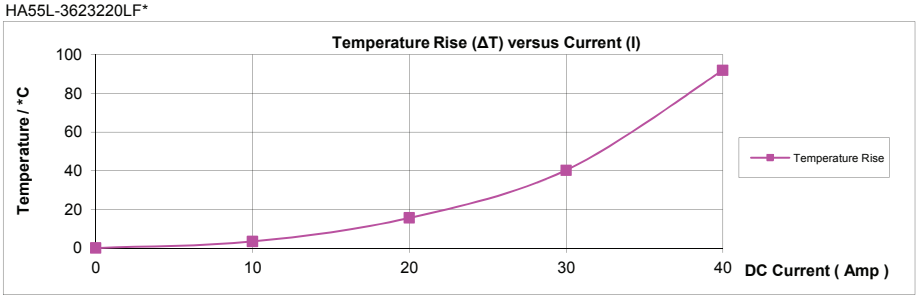
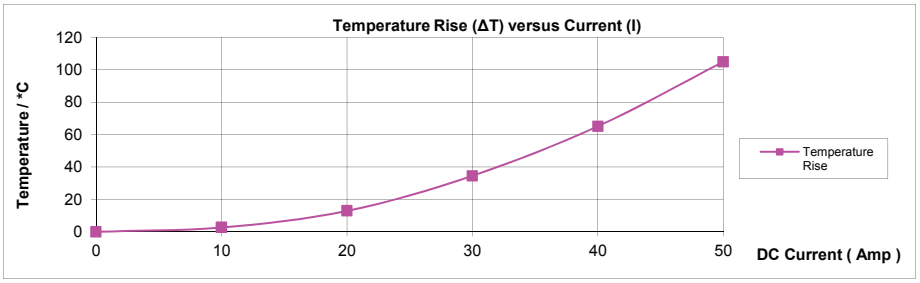
MODEL HA55

Electrical Characteristics

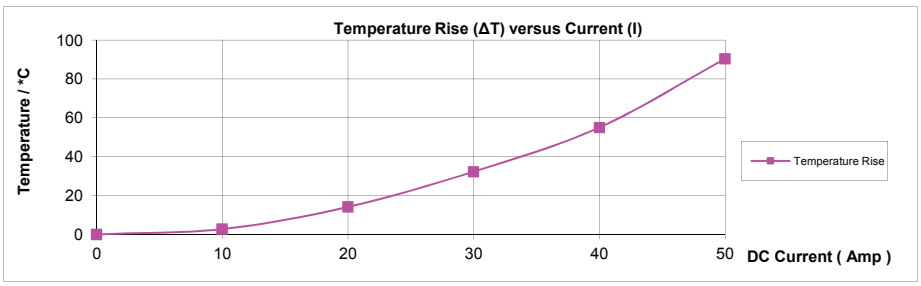
HA55L-3623220LF*



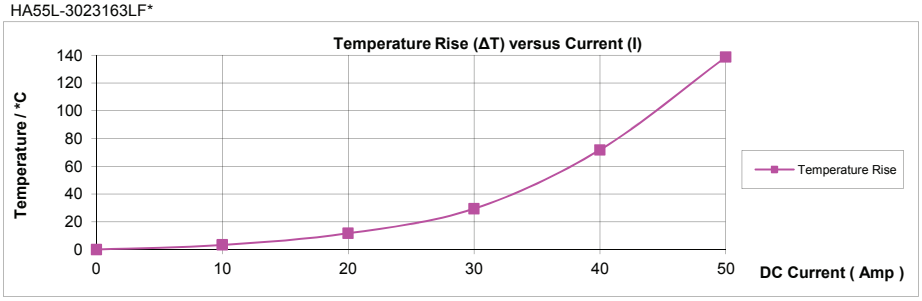
HA55L-3023135LF*



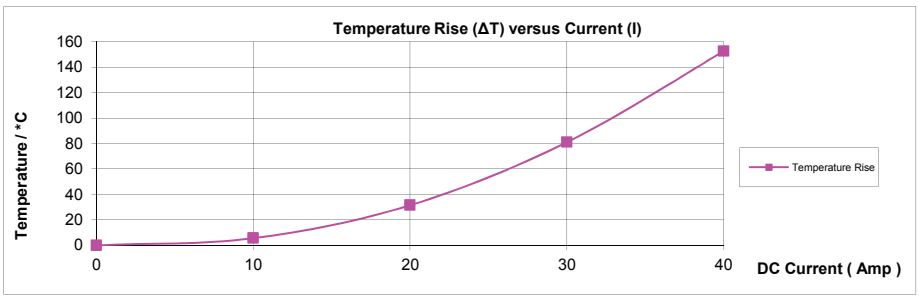
HA55L-2223088LF*



HA55L-3023163LF*



HA55L-3623400LF*



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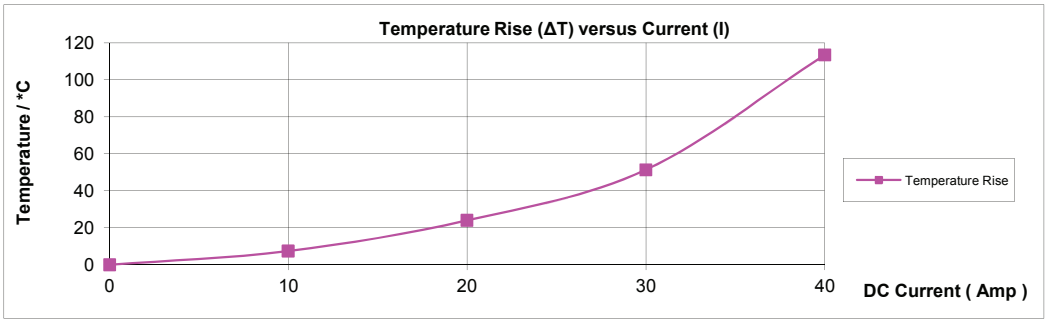
MODEL HA55

Electrical Characteristics

HA55L-4523500LF*



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MODEL HA55

Mechanical Outline (mm)

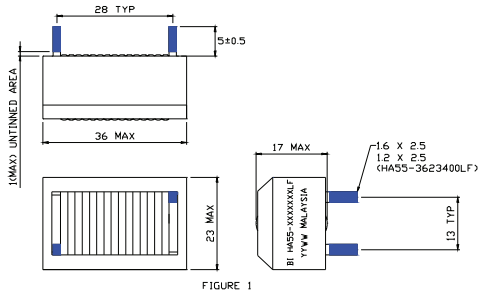

FIGURE 1

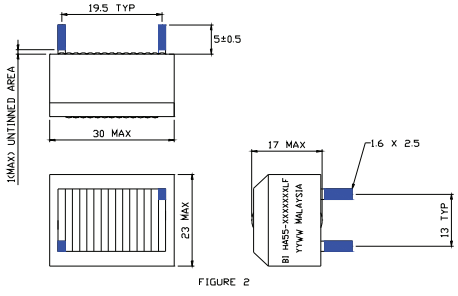

FIGURE 2

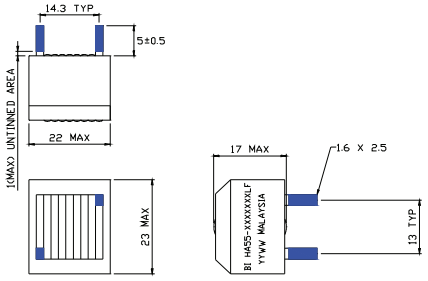

FIGURE 3

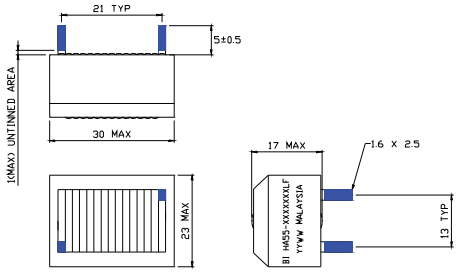

FIGURE 4

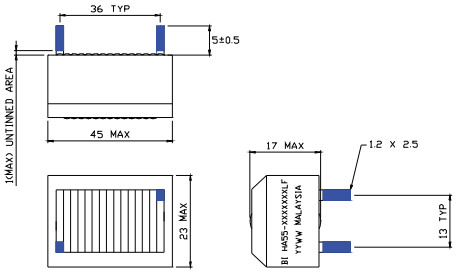

FIGURE 5

Packaging

(Packed in compact PE foam)
1) 1 shipping carton 72pcs (FOR CASE 3623 & 4523)
2) 1 shipping carton 108pcs (FOR CASE 3023)
3) 1 shipping carton 144pcs (FOR CASE 2223)

Ordering Information

HA55 XXXX XXX LF

Model Series
HA55L - LOW COST VERSION

Case Size :
Eg 3623 = 36Max Length,
23Max Width

Inductor Code :
Eg 115 = 11.5uH

Lead-Free

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