

Product Portfolio – SACI Core assembly series

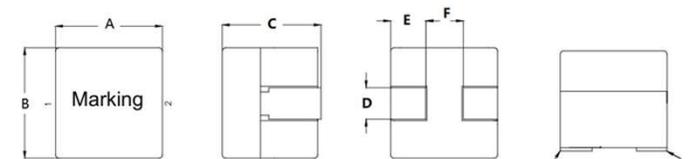
• SACI- Ferrite Core assembly Types

Features-

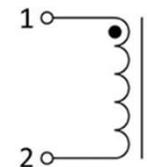
- SACI EI Core assembly Series
- High saturation characteristic core for large saturation current and low loss
- Closed magnetic circuit design reduces leakage flux
- High precision DCR
- Halogen Free & ROHS compliant

Test Noted-

1. All test data is referenced to 25°C ambient
2. Operating temperature range -40°C to +125°C
3. Irms: DC current that causes the temperature rise ΔT from 25°C ambient when two coils connected in series, ΔT is approximate 40°C
4. Isat: DC current at which the inductance drops approximate 20% from its value without current



SCHEMATIC



NO	ITEM	MATERIAL
1	Core	Ferrite Core
2	Clip	Cu/Sn Clip
3	Ink	Black Ink(Resin)
4	Adhesive	Epoxy

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Part No.	Inductance	DC Resistance	Saturation Current		Heating Rating Current
	L (μ H) \pm 20%	DCR (m Ω)	Isat (A) Typ.		Irms (A) Typ.
	@100KHz, 1.0V	(at 25 \pm 5 $^{\circ}$ C)	25 $^{\circ}$ C	100 $^{\circ}$ C	25 $^{\circ}$ C
SACI04044L-R022KT	0.022	0.32 \pm 25%	40	34	48
SACI04044L-R050KT	0.050	0.32 \pm 25%	35	30	48
SACI04044L-R065KT	0.065	0.32 \pm 25%	30	23	48
SACI04044L-R10KT	0.10	0.32 \pm 25%	17	15	48

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	@100KHz, 1.0V	(at 25 \pm 5 $^{\circ}$ C)	25 $^{\circ}$ C	100 $^{\circ}$ C	25 $^{\circ}$ C
SACI05057L-R055MT	0.055	0.25 \pm 20%	70	60	50
SACI05057L-R080MT	0.080	0.25 \pm 20%	50	40	50
SACI05057L-R10MT	0.10	0.25 \pm 20%	40	30	50
SACI05057L-R11MT	0.11	0.25 \pm 20%	36	27	50
SACI05057L-R15MT	0.15	0.25 \pm 20%	25	20	50

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	L (μ H) \pm 20%	DCR (m Ω)	Isat (A) Typ.		Irms (A) Typ.
	@100KHz, 1.0V	Max.	25°C	100°C	25°C
SACI07074L-R060MT	0.06 \pm 20%	0.19	51	-	30
SACI07074L-R10MT	0.10 \pm 20%	0.19	34	-	30

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	@100KHz, 1.0V	(at 25 \pm 5 $^{\circ}$ C)	25 $^{\circ}$ C	100 $^{\circ}$ C	25 $^{\circ}$ C
SACI07075L-R060MT	0.06	0.32 \pm 10%	70	54	37
SACI07075L-R070MT	0.07	0.32 \pm 10%	58	45	37
SACI07075L-R10MT	0.10	0.32 \pm 10%	46	38	37
SACI07075L-R15MT	0.15	0.32 \pm 10%	34	24	37
SACI07075L-R20MT	0.20	0.32 \pm 10%	25	18	37

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Part No.	Inductance	DC Resistance	Saturation Current		Heating Rating Current
	L (μH) $\pm 20\%$	DCR ($\text{m}\Omega$)	Isat (A) Typ.		Irms (A) Typ.
	@100KHz, 1.0V	(at $25\pm 5^\circ\text{C}$)	25°C	100°C	25°C
SACI07077L-R11MT	$0.11\pm 15\%$	$0.30\pm 15\%$	67	51	45

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Part No.	Inductance	DC Resistance	Saturation Current		Heating Rating Current
	L (μ H) \pm 15%	DCR (m Ω)	Isat (A) Typ.		Irms (A) Typ.
	@100KHz, 1.0V	(at 25 \pm 5 $^{\circ}$ C)	25 $^{\circ}$ C	100 $^{\circ}$ C	25 $^{\circ}$ C
SACI09068L-R10LT	0.10	0.29 \pm 7%	94	81	51
SACI09068L-R12LT	0.12	0.29 \pm 7%	79	68	51
SACI09068L-R15LT	0.15	0.29 \pm 7%	65	55	51
SACI09068L-R18LT	0.18	0.29 \pm 7%	55	45	51
SACI09068L-R22LT	0.22	0.29 \pm 7%	44	37.5	51

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Part No.	Inductance	DC Resistance	Saturation Current		Heating Rating Current
	L (μ H) \pm 10%	DCR (m Ω)	Isat (A) Typ.		Irms (A) Typ.
	@100KHz, 1.0V	Max.	25°C	100°C	25°C
SACI090610L-R10KT	0.10	0.12	93	74	84
SACI090610L-R12KT	0.12	0.12	70	60	84
SACI090610L-R15KT	0.15	0.12	55	48	84
SACI090610L-R18KT	0.18	0.12	46	40	84
SACI090610L-R22KT	0.22	0.12	38	33	84

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Part No.	Inductance	DC Resistance	Saturation Current		Heating Rating Current
	L (μ H) \pm 10%	DCR ($m\Omega$)	Isat (A) Typ.		Irms (A) Typ.
	@100KHz, 1.0V	Max.	25°C	100°C	25°C
SACI10075L-R070KT	0.07	0.1375	85	78	40
SACI10075L-R10KT	0.1	0.1375	60	55	40
SACI10075L-R12KT	0.12	0.1375	50	45	40
SACI10075L-R15KT	0.15	0.1375	40	36	40
SACI10075L-R20KT	0.2	0.1375	30	27	40

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	L (μ H) \pm 15%	DCR (m Ω)	Isat (A) Typ.		Irms (A) Typ.
	@100KHz, 1.0V	(at 25 \pm 5 $^{\circ}$ C)	25 $^{\circ}$ C	100 $^{\circ}$ C	25 $^{\circ}$ C
SACI10077L-R12LT	0.15	0.29 \pm 10%	81	65	51
SACI10077L-R15LT	0.15	0.29 \pm 10%	72	56	51
SACI10077L-R17LT	0.17	0.29 \pm 10%	58	46	51
SACI10077L-R22LT	0.22	0.29 \pm 10%	50	36	51
SACI10077L-R30LT	0.3	0.29 \pm 10%	32	26	51

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	L (μ H) \pm 10%	DCR (m Ω)	Isat (A) Typ.		Irms (A) Typ.
	@100KHz, 1.0V	(at 25 \pm 5 $^{\circ}$ C)	25 $^{\circ}$ C	100 $^{\circ}$ C	25 $^{\circ}$ C
SACI10087L-R12KT	0.12	0.29 \pm 10%	80	65	60
SACI10087L-R15KT	0.15	0.29 \pm 10%	72	56	60
SACI10087L-R17KT	0.17	0.29 \pm 10%	58	46	60
SACI10087L-R20KT	0.20	0.29 \pm 10%	48	36	60
SACI10087L-R22KT	0.22	0.29 \pm 10%	46	36	60
SACI10087L-R30KT	0.30	0.29 \pm 10%	32	26	60

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Part No.	Inductance	DC Resistance	Saturation Current		Heating Rating Current
	L (μH) $\pm 10\%$	DCR ($\text{m}\Omega$)	Isat (A) Typ.		Irms (A) Typ.
	@100KHz, 1.0V	(at $25\pm 5^\circ\text{C}$)	25°C	100°C	25°C
SACI10088L-R080KT	0.080	$0.18\pm 5\%$	130	120	68
SACI10088L-R082KT	0.082	$0.18\pm 5\%$	126	116	68
SACI10088L-R10KT	0.10	$0.18\pm 5\%$	113	100	68
SACI10088L-R12KT	0.12	$0.18\pm 5\%$	95	84	68
SACI10088L-R15KT	0.15	$0.18\pm 5\%$	78	69	68
SACI10088L-R18KT	0.18	$0.18\pm 5\%$	62	56	68
SACI10088L-R22KT	0.22	$0.18\pm 5\%$	52	45	68
SACI10088L-R27KT	0.27	$0.18\pm 5\%$	41	36	68
SACI10088L-R30KT	0.30	$0.18\pm 5\%$	35	33	68
SACI10088L-R33KT	0.33	$0.18\pm 5\%$	33	30	68

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	@100KHz, 1.0V	(at 25 \pm 5 $^{\circ}$ C)	25 $^{\circ}$ C	100 $^{\circ}$ C	25 $^{\circ}$ C
SACI11077L-R070KT	0.07	0.29 \pm 10%	150	140	39
SACI11077L-R12KT	0.12	0.29 \pm 10%	95	83	39
SACI11077L-R15KT	0.15	0.29 \pm 10%	80	62	39
SACI11077L-R17KT	0.17	0.29 \pm 10%	70	55	39
SACI11077L-R20KT	0.20	0.29 \pm 10%	60	45	39
SACI11077L-R23KT	0.23	0.29 \pm 10%	50	36	39
SACI11077L-R30KT	0.30	0.29 \pm 10%	37	28	39
SACI11077L-R40KT	0.40	0.29 \pm 10%	25	18	39
SACI11077L-R50KT	0.50	0.29 \pm 10%	18	13	39
SACI11077L-R51KT	0.51	0.29 \pm 10%	18	13	39