



Sample Kit

ERU Chokes

ERUC23, SMT flat wire coupled
inductor – B82559S*M023



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ERU Chokes – ERUC23, SMT flat wire coupled inductor – B82559S*M023

$L_{3, \text{nom}}$	μH	4.1	3.2	2.8	2.2	1.8	1.4
$I_{\text{sat-max } 25^\circ\text{C}}$	A	45.0	57.5	55.0	71.0	73.0	88.0
$I_{\text{sat-typ } 25^\circ\text{C}}$	A	50.0	63.5	61.0	77.0	81.0	97.0
$I_{\text{sat-typ } 100^\circ\text{C}}$	A	39.5	49.0	47.0	58.0	62.0	73.0
$I_{\text{Temp-typ}}$	A	24.0	24.0	27.0	27.0	33.0	33.0
$L_1, L_2 \text{ nom}$	μH	7.9	5.9	5.4	4.1	3.5	2.6
$R_{\text{DC1}}, R_{\text{DC2 nom}}$	$\text{m}\Omega$	1.85	1.85	1.25	1.25	0.82	0.82
Height ± 0.3	mm	13.7	13.7	13.8	13.8	14.0	14.0
Internal code	B82559*	S6412M023	S6322M023	S5282M023	S5222M023	S4182M023	S4142M023
Ordering code		ERUC23-4R1K	ERUC23-3R2K	ERUC23-2R8K	ERUC23-2R2K	ERUC23-1R8K	ERUC23-1R4K

Construction

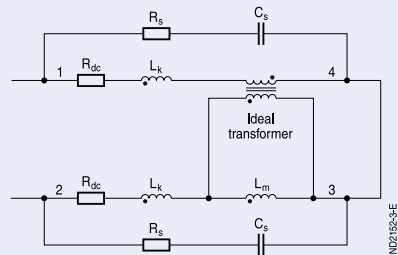
- Low loss ferrite
- Flat wire winding
- Self-leaded construction

Applications

- Dual phase buck, boost, and buck-boost converters
- $48 V_{\text{in}} - 12 V_{\text{out}}$ hybrid converter

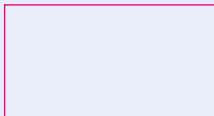
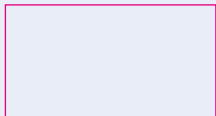
Features

- High saturation current
- Low DC resistance
- RoHS-compatible
- Compact coupled inductors
- AEC-Q200 qualified

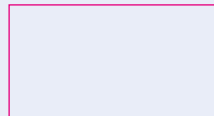
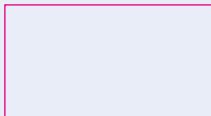


Content: 2 pcs. per ordering code

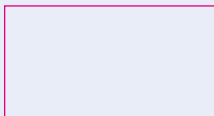
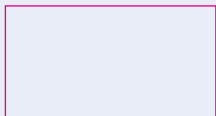
B82559S4142M023 - ERUC23-1R4K



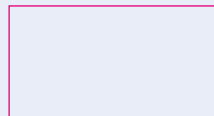
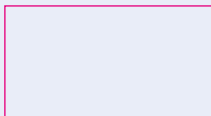
B82559S4182M023 - ERUC23-1R8K



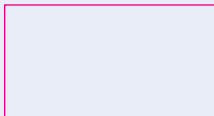
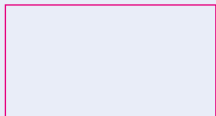
B82559S5222M023 - ERUC23-2R2K



B82559S5282M023 - ERUC23-2R8K



B82559S6322M023 - ERUC23-3R2K



B82559S6412M023 - ERUC23-4R1K

