

SPECIFICATION OF TLVR□□□□SLGM SERIES

FEATURES

1. High saturation current and rated current
2. Low loss with low DCR
3. Shielded construction for low radiation
4. RoHS, Halogen Free and REACH Compliance



APPLICATIONS

TLVR, Multi-phase regulators, Graphic cards(GPU), Servers
Data centers, Data network and storage systems, BMS

ORDERING CODE

TLVR9611SLGM R22 L I

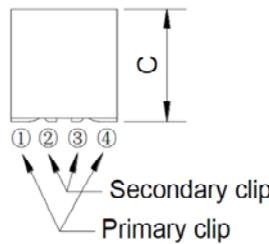
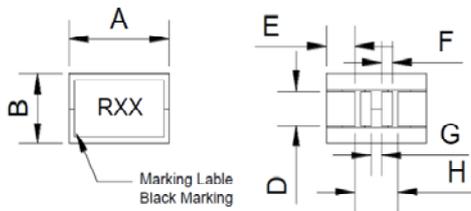
(1) (2) (3)(4)

(1) PRODUCT TYPE CODE AND SIZE CORE

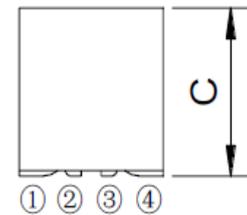
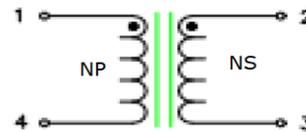
(2) INDUCTANCE

(3) INDUCTANCE TOLERANCE (L: ±15%)

(4) REEL TAPING

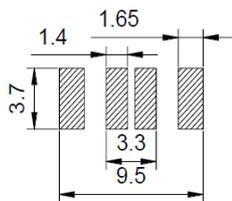


Schematic

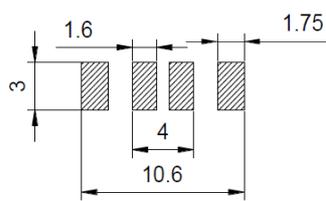


①-④ Primary coil
②-③ Secondary coil

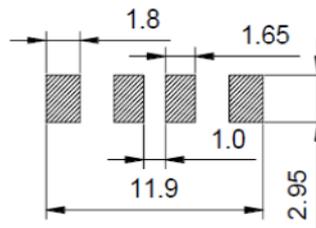
Recommended Pad Layout



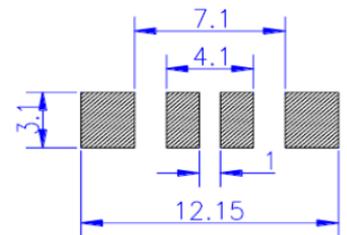
TLVR-9611SLGM



TLVR-1012SLGM



TLVR-1211SLGM



TLVR-1212SLGM

SHAPE & DIMENSIONS

SIZE CODE	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm
TLVR-9611SLGM	9.6max	6.4max	10.5max	3.2±0.5	2.1±0.5	1.1±0.5	1.8 Ref	4.8 Ref
TLVR-1012SLGM	10.0max	5.0max	12.0max	2.5±0.5	2.5±0.5	1.1±0.5	1.5 Ref	4.9 Ref
TLVR-1211SLGM	12.0max	6.0max	11.0±0.2	2.45±0.3	2.6±0.5	1.6±0.3	1.5 Ref	6.0 Ref
TLVR-1212SLGM	12.0max	6.0/6.2max	12.0max	2.4±0.2	3.1±0.2	1.05±0.2	1.4±0.2	5.3±0.2

※Other sizes are available upon request.

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SMD POWER INDUCTORS OF TLVR-9611SLGM SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance @100KHz/1V		DCR (mΩ)		Isat 1 @25°C (A)typ	Isat 2 @100°C (A)typ	IDC (A)TYP	
	(nH)	(±%)	Primary	Secondary			Primary	Secondary
TLVR-9611SLGM-R10LT	100	15	0.125±10%	0.33±10%	98	83	75	40
TLVR-9611SLGM-R12LT	120	15	0.125±10%	0.33±10%	79	67	75	40
TLVR-9611SLGM-R15LT	150	15	0.125±10%	0.33±10%	62	53	75	40
TLVR-9611SLGM-R18LT	180	15	0.125±10%	0.33±10%	54	46	75	40
TLVR-9611SLGM-R22LT	220	15	0.125±10%	0.33±10%	40	35	75	40

※Inductance: Based on Primary coil

※Isat: Based on Inductance decrease 20%

※IDC: Based on Temperature increase 40°C

※Operating temperature range: - 40 to 125°C (including self-generated heat)

※Other sizes are available upon request.

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SMD POWER INDUCTORS OF TLVR-1012SLGM SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance @100KHz/1V		DCR (mΩ)		Isat 1 @25°C (A)typ	Isat 2 @100°C (A)typ	IDC (A)TYP	
	(nH)	(±%)	Primary	Secondary			Primary	Secondary
TLVR-1012SLGM-R07LT	70	15	0.125±10%	0.45±10%	127	110	75	40
TLVR-1012SLGM-R08LT	80	15	0.125±10%	0.45±10%	111	96	75	40
TLVR-1012SLGM-R09LT	90	15	0.125±10%	0.45±10%	98	85	75	40
TLVR-1012SLGM-R10LT	100	15	0.125±10%	0.45±10%	89	77	75	40
TLVR-1012SLGM-R12LT	120	15	0.125±10%	0.45±10%	74	64	75	40
TLVR-1012SLGM-R15LT	150	15	0.125±10%	0.45±10%	59	51	75	40
TLVR-1012SLGM-R17LT	170	15	0.125±10%	0.45±10%	52	45	75	40

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SMD POWER INDUCTORS OF TLVR-1211SLGM SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance @100KHz/1V		DCR (mΩ)		Isat 1 @25°C (A)typ	Isat 2 @100°C (A)typ	IDC (A)TYP	
	(nH)	(±%)	Primary	Secondary			Primary	Secondary
TLVR-1211SLGM-R07LT	70	15	0.125±10%	0.37±10%	160	140	77	45
TLVR-1211SLGM-R08LT	80	15	0.125±10%	0.37±10%	150	120	77	45
TLVR-1211SLGM-R09LT	90	15	0.125±10%	0.37±10%	135	115	77	45
TLVR-1211SLGM-R105LT	105	15	0.125±10%	0.37±10%	125	106	77	45
TLVR-1211SLGM-R12LT	120	15	0.125±10%	0.37±10%	102	87	77	45
TLVR-1211SLGM-R15LT	150	15	0.125±10%	0.37±10%	84	71	77	45
TLVR-1211SLGM-R17LT	170	15	0.125±10%	0.37±10%	70	60	77	45
TLVR-1211SLGM-R20LT	200	15	0.125±10%	0.37±10%	58	50	77	45

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SMD POWER INDUCTORS OF TLVR-1212SLGM SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance @100KHz/1V		DCR (mΩ)		Isat 1 @25°C (A)typ	Isat 2 @100°C (A)typ	IDC (A)TYP	
	(nH)	(±%)	Primary	Secondary			Primary	Secondary
TLVR-1212SLGM-R07LT	70	15	0.125±10%	0.45max	160	140	70	40
TLVR-1212SLGM-R10LT	100	15	0.125±10%	0.45max	125	105	70	40
TLVR-1212SLGM-R105LT	105	15	0.125±10%	0.45max	120	100	70	40
TLVR-1212SLGM-R12LT	120	15	0.125±10%	0.45max	100	90	70	40
TLVR-1212SLGM-R15LT	150	15	0.125±10%	0.45max	80	70	70	40
TLVR-1212SLGM-R17LT	170	15	0.125±10%	0.45max	70	55	70	40
TLVR-1212SLGM-R20LT	200	15	0.125±10%	0.45max	50	40	70	40

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