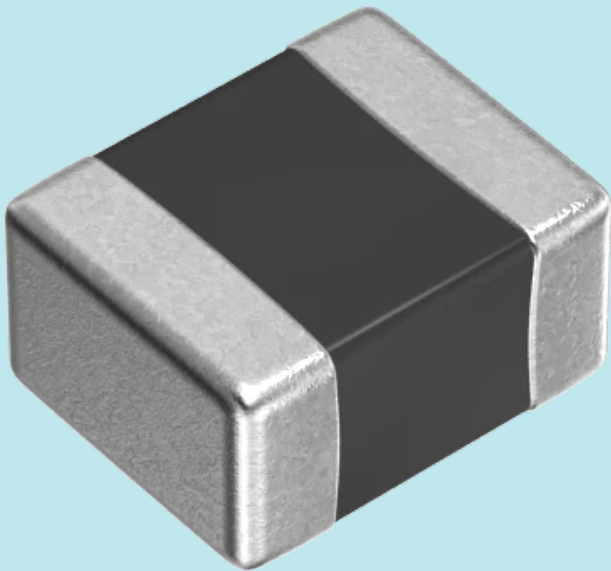


# TFM252012-AUTO-KIT

Thin-film Automotive Power Inductor  
Sample Kit



# TFM252012 type

AEC-Q200

## Features

- By using metal magnetic material with high saturation magnetic flux density the excellent DC bias characteristics needed for inductors for power circuits can be achieved
- With the same product shape and terminal structure as general chip parts it has excellent mounting stability characteristics and can also be mounted to general-purpose land patterns
- By using a closed magnetic circuit structure leakage flux is minimized
- Operating temperature range: -55°C to +150°C (including self-temperature rise)
- TFM-ALVA type: The rated voltage of 40V is realized by design that emphasizes voltage resistance
- Compliant with AEC-Q200

## Application

- ADAS ECU, in-vehicle camera (view camera, sensing camera), radar, meter cluster, automotive communication module, other power supply circuit uses

L ( $\mu$ H)	Tolerance	DC Resistance		Rated Current				Rated Voltage (V)	Part Number	Kit Quantity
		(m $\Omega$ )max	(m $\Omega$ ) typ	Isat (A) max	Isat (A) typ	Itemp (A) max	Itemp (A) typ			
0.10	$\pm 20\%$	9	4	10	12	8	12	20	TFM252012ALMAR10MTAA	5
0.15	$\pm 20\%$	11	6	9.0	10	7.3	9.8	20	TFM252012ALMAR15MTAA	5
0.22	$\pm 20\%$	13	8	8.0	9.0	6.7	8.5	20	TFM252012ALMAR22MTAA	5
0.33	$\pm 20\%$	18	13	7.0	7.8	5.7	6.6	20	TFM252012ALMAR33MTAA	5
0.47	$\pm 20\%$	24	19	5.8	6.5	4.9	5.6	20	TFM252012ALMAR47MTAA	5
0.68	$\pm 20\%$	34	26	4.8	5.4	4.1	4.7	20	TFM252012ALMAR68MTAA	5
1.0	$\pm 20\%$	42	35	4.2	4.7	3.7	4.1	20	TFM252012ALMA1R0MTAA	5
1.5	$\pm 20\%$	60	52	3.3	3.9	3.1	3.3	20	TFM252012ALMA1R5MTAA	5
2.2	$\pm 20\%$	84	75	2.8	3.3	2.6	2.8	20	TFM252012ALMA2R2MTAA	5
3.3	$\pm 20\%$	140	124	2.1	2.5	2.0	2.2	20	TFM252012ALMA3R3MTAA	5
4.7	$\pm 20\%$	200	180	1.9	2.2	1.6	1.8	20	TFM252012ALMA4R7MTAA	5
1.0	$\pm 20\%$	42	35	4.2	4.7	3.7	4.1	40	TFM252012ALVA1R0MTAA	5
1.5	$\pm 20\%$	60	52	3.3	3.9	3.1	3.3	40	TFM252012ALVA1R5MTAA	5
2.2	$\pm 20\%$	84	75	2.8	3.3	2.6	2.8	40	TFM252012ALVA2R2MTAA	5
3.3	$\pm 20\%$	140	124	2.1	2.5	2.0	2.2	40	TFM252012ALVA3R3MTAA	5
4.7	$\pm 20\%$	200	200	1.9	2.2	1.6	1.8	40	TFM252012ALVA4R7MTAA	5