



WeChat Mini Apps



**3L ELECTRONIC
CORPORATION**

AUTOMOTIVE

INDUCTOR SELECTION





PRODUCTS
BROCHURE





WWW.3LCOIL.COM







HF
Halogen Free

SMT Inductor for Automotive Power Lines

Molding type				
Series	ATUP		AUPI	
Photos				
Size	ATUP0421 4.1x4.1x2.1 ATUP0403 4.1x4.1x3.0 ATUP0521 5.3x5.5x2.1 ATUP0505 5.3x5.5x5.0 ATUP0631 6.4x6.6x3.1 ATUP0606 6.4x6.6x6.0	ATUP0721 7.6x7.8x2.1 ATUP0707 7.6x7.8x7.0 ATUP1031 11.0x11.9x3.1 ATUP1010 11.0x11.9x10.0 ATUP1508 15.5x16.5x8.0 ATUP1513 15.5x16.5x13.0	AUPI0603 7.30x6.80x3.0 AUPI0604 7.30x6.80x4.0 AUPI0804 8.90x8.25x4.0 AUPI0854 8.90x8.35x5.4 AUPI1004 11.5x10.3x4.0 AUPI1005 11.5x10.3x5.0	AUPI1054 11.5x10.3x5.4 AUPI1205 13.9x12.9x5.0 AUPI1265 13.9x12.9x6.5 AUPI1207 13.9x12.9x7.0 AUPI1707 17.8x17.3x7.0
Feature	0421 0.10uH~2.2uH 33.0A~6.0A 0403 0.47uH~6.8uH 13.5A~3.0A 0521 0.15uH~1.5uH 27.0A~10.0A 0505 5.6uH~15.0uH 7.2A~3.2A 0631 0.18uH~4.5uH 36.0A~8.0A 0606 1.0uH~22.0uH 19.0A~4.8A	0721 0.27uH~1.0uH 27.0A~20.0A 0707 1.0uH~6.8uH 31.8A~10.0A 1031 0.28uH~1.5uH 55.0A~23.0A 1010 2.2uH~15.0uH 29.0A~11.0A 1508 2.0uH~22.0uH 52.0A~16.0A 1513 4.7uH~33.0uH 36.0A~16.0A	0603 0.47uH~22.0uH 21.0A~3.5A 0604 2.20uH~33.0uH 13.0A~3.0A 0804 0.33uH~33.0uH 42.0A~2.6A 0854 10.0uH~22.0uH 8.0A~6.2A 1004 0.22uH~47.0uH 60.0A~3.2A 1005 1.0uH~22.0uH 33.0A~5.0A	1054 1.0uH~33.0uH 31.7A~5.5A 1205 0.47uH~10.0uH 54.0A~12.0A 1265 1.5uH~33.0uH 40.0A~7.0A 1207 1.0uH~8.2uH 35.0A~14.5A 1707 1.5uH~10.0uH 50.0A~20.0A
Temp	-55~155°C		-55~155°C	


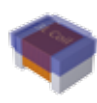



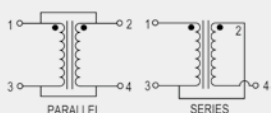
Molding type								
Series	APHP & AHPI		PHPM & HPIM		UPIMB		UPIMF	
Photos								
Size	APHP201610 2.0x1.6x1.0 APHP201612 2.0x1.6x1.2 APHP252012 2.5x2.0x1.2 AHPI0312 3.4x3.0x1.2 AHPI0302 3.4x3.0x2.0 AHPI0412 4.4x4.0x1.2 AHPI0402 4.4x4.0x2.0	PHPM201610 2.0x1.6x1.0 PHPM201612 2.0x1.6x1.2 PHPM252010 2.5x2.0x1.0 PHPM252012 2.5x2.0x1.2 PHPM322512 3.2x2.5x1.2 HPIM0302 3.4x3.0x2.0 HPIM0402 4.4x4.0x2.0	UPIMBS0603 7.30x6.80x3.0 UPIMB0804 8.90x8.35x4.0 UPIMB1004 11.5x10.3x4.0 UPIMB1205 13.9x12.9x5.0 UPIMB1265 13.9x12.9x6.5 UPIMB1707 17.8x17.3x7.0	UPIMFS0603 7.30x6.80x3.0 UPIMF0804 8.90x8.35x4.0 UPIMF1004 11.5x10.3x4.0 UPIMF1205 13.9x12.9x5.0 UPIMF1265 13.9x12.9x6.5				
Feature	201610 0.47uH 2.7A 201612 1.0uH~2.2uH 2.3A~1.4A 252012 0.47uH~4.7uH 3.8A~1.4A 0312 0.33uH~4.7uH 7.0A~1.8A 0302 1.00uH~6.8uH 5.0A~1.8A 0412 0.22uH~4.7uH 10.0A~2.0A 0402 0.47uH~15.0uH 10.0A~1.5A	201610 1.0uH~2.2uH 3.0A~2.0A 201612 1.0uH~2.2uH 2.9A~2.1A 252010 2.2uH 2.4A 252012 0.47uH~4.7uH 6.0A~1.6A 322512 0.47uH~6.8uH 8.0A~1.9A 0302 0.47uH~10.0uH 7.0A~1.2A 0402 1.00uH~15.0uH 7.0A~1.5A	S0603 1.0uH~22.0uH 22.0A~3.5A 0804 0.33uH~33.0uH 44.0A~5.4A 1004 0.56uH~47.0uH 55.0A~4.5A 1205 0.22uH~33.0uH 85.0A~10A 1265 0.33uH~47.0uH 85.0A~8.0A 1707 1.5uH~4.7uH 60.A~41.0A	S0603 1.0uH~22.0uH 18.0A~3.5A 0804 0.33uH~47.0uH 38.0A~3.2A 1004 1.0uH~47.0uH 28.0A~3.2A 1205 0.68uH~47.0uH 45.0A~5.0A 1265 1.5uH~15.0uH 39.0A~10.5A				
Temp	-55~155°C		-55~125°C		-55~125°C		-55~125°C	

Wire Wound Ferrite typ								
Series	SMTDRH & SMTDRRI		SMTDRS		SMTDR		SNR	
Photos								
Size	SMTDRH104RM 10.3x10.4x4.0 SMTDRH105RM 10.3x10.4x5.0 SMTDRRI127PM 12.3x12.3x8.5	SMTDRS0745M 7.2x7.2x4.8 SMTDRS1045M 10.4x10.4x4.80 SMTDRS1255M 12.8x12.8x5.85 SMTDRS1265M 12.8x12.8x6.85 SMTDRS1275M 12.8x12.8x7.85	SMTDR53M 5.8x5.2x3.0 SMTDR54M 5.8x5.2x4.5 SMTDR75M 7.8x7.0x5.0 SMTDR105M 10.0x9.0x5.4	SNR3015TM 3.00x3.00x1.50 SNR4018TM 4.00x4.00x1.80 SNR4030TM 4.00x4.00x3.00 SNR5040TM 4.95x4.95x4.10 SNR6045TM 6.00x6.00x4.50 SNR8040TM 8.00x8.00x4.20				
Feature	104RM 7.0uH~330uH 6.0A~0.88A 105RM 6.8uH~330uH 5.6A~0.68A 127PM 3.5uH~330uH 13.0A~1.54A	0745M 10uH~220uH 1.3A~0.33A 1045M 10uH~220uH 3.0A~0.65A 1255M 10uH~470uH 3.4A~0.49A 1265M 10uH~150uH 5.0A~1.0A 1275M 10uH~220uH 5.5A~1.3A	53M 2.7uH~270uH 4.25A~0.44A 54M 10uH~330uH 1.60A~0.33A 75M 10uH~470uH 2.88A~0.40A 105M 10uH~820uH 4.0A~0.44A	3015TM 0.24uH~47.0uH 5.5A~0.47A 4018TM 1.00uH~47.0uH 3.5A~0.50A 4030TM 0.68uH~47.0uH 5.8A~0.75A 5040TM 0.60uH~100uH 9.0A~0.60A 6045TM 0.36uH~470uH 6.5A~0.45A 8040TM 1.0uH~470uH 13.0A~0.55A				
Temp	-40~125°C		-40~125°C		-40~125°C		-40~125°C	

PS: Note: 1. All dimensions are defined as OD x L or L x W x H and the unit for all dimensions is "mm"

2. The magnetic structure: **I** Unshielded **I I** **II** **III** **IV** Shielded

SMT Inductor for Automotive

Double-Wire Winding		RF	Common mode		Current Sensor	
Series	SMTDRRI-4P	SMDCHGR	SMDWCM & SMTLF		SMTEE	
Photos						
Size	SMTDRRI127PA 12x12x 8.5 	SMDCHGR 0603XM 1.80x1.20x1.02 0805XM 2.40x1.65x2.03 1008XM 2.90x2.54x2.03	SMDWCM2012TM 2.0x1.2x1.2 SMDWCM3216TM 3.2x1.6x2.0 SMDWCM 3225TM 3.2x2.5x2.5 SMDWCM 4532TM 4.5x3.2x2.8 SMTLF3922PM 9.5x6.0x4.9	SMTEE 4.4M 4.80x3.65x3.55 SMTEE 4.6M 5.20x7.20x3.00 SMTEE 5.0M 8.38x8.00x5.50 SMTEE 8.3M 11.0x13.0x7.80		
Feature	10uH~330uH 10.5A~1.9A (parallel) 40uH~1320uH 5.4A~0.9A (series)	0603XM 1.8nH~470nH 700mA~80mA 0805XM 2.2nH~4R7uH 800mA~90mA 1008XM 4.2nH~10uH 1000mA~150mA	2012TM 67Ω~360Ω 400mA~300mA 3216TM 90Ω~2200Ω 400mA~200mA 3225TM 300Ω~5000Ω 300mA~70mA 4532TM 300Ω~2000Ω 360mA~200mA 3922PM 11uH~4700UH 700mA~200mA		4.4M 1T:20T~150T 4.6M 1T:20T~150T 5.0M 1T:20T~125T 8.3M 1T:20T~200T	
Temp	-40 ~155°C	-40 ~125°C	-40 ~125°C		-40 ~125°C	

Customized products

SMTEFD 	SMTEFD 	SMTEFD 	SMTEPC 	RM 
SMTER 	SMTEP 	WPT 	WPT 	WPT-Qi 2.0 
FC- ROUND WIRE 	FC- FLAT WIRE 	SMTFC 	UPI-4T 	SMTEI 
SMTER & PQ 	SMTBW 	PFCH 	SMTTC843 	SMTLF 
SMTLFD 	LFT & LFTB 	LFTBH 	LFTB 	LFTB 

PS: Products developed/designed upon customers' requirement

Automotive Inductance Applications

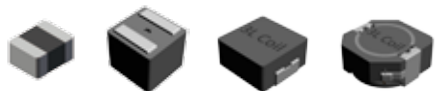
CAR AUDIO



BMS



ADAS



USB CHARGER



CAN BUS



LED/HID



WIPERS



WIRELESS CHARGING



OTHER POWER LINES



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