

HIGH CURRENT POWER INDUCTORS

FAPM 0603,0604 SERIES

FEATURES:

Lowest height in this package footprint.
 Shielded construction.
 Lowest DCR/H, in this package size.
 Handles high transient current spikes without saturation.
 Ultra low buzz noise, due to composite construction.
 Frequency up to 5MHz.
 The products contain no lead and also support lead-free soldering.

OPTIONS:

Tape & Reel is Standard
 (Qty:1000pcs.)
 Bulk packaging Available
 for Smaller Quantities
 Tolerance:M=20%,N=30% is
 Standard, Tighter Tolerances Available

COMMON APPLICATIONS:

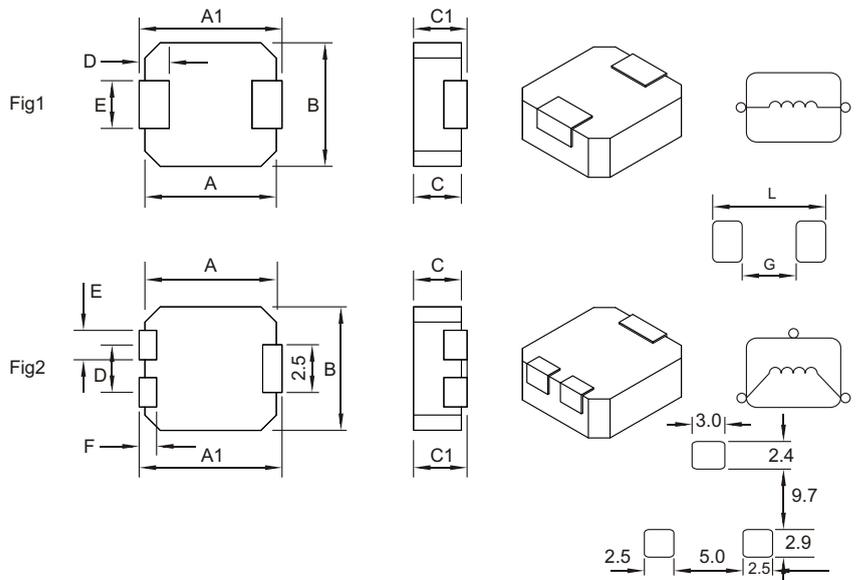
Excellent for power line DC-DC conversion
 Applications used in power switching
 Personal computers and other
 handheld electronic equipment.

ELECTRICAL CHARACTERISTICS:

Part Number	Thickness (mm)max.	Inductance L0(H) 20% @0Adc	I rms (A)	I sat (A)	DCR (m)max.	Part Number	Thickness (mm)max.	Inductance L0(H) 20% @0Adc	I rms (A)	I sat (A)	DCR (m)max.
FAPM 0603H-R10M	3.0	0.10	32.5	42	1.7	FAPM 0603H-1R0M	3.0	1.0	11.0	16	10
FAPM 0603H-R15M	3.0	0.15	26.0	38	2.5	FAPM 0603H-1R5M	3.0	1.5	9.0	14	15
FAPM 0603H-R20M	3.0	0.20	24.0	36	3.0	FAPM 0603H-2R2M	3.0	2.2	8.0	12	20
FAPM 0603H-R22M	3.0	0.22	23.0	36	2.8	FAPM 0603H-3R3M	3.0	3.3	6.0	10	30
FAPM 0603H-R33M	3.0	0.33	20.0	30	3.9	FAPM 0603H-4R7M	3.0	4.7	5.5	6.5	40
FAPM 0603H-R47M	3.0	0.47	17.5	26	4.2	FAPM 0603H-6R8M	3.0	6.8	4.5	6.0	60
FAPM 0603H-R68M	3.0	0.68	15.5	23	5.5	FAPM 0604H-8R2M	4.0	8.2	4.0	5.5	68
FAPM 0603H-R82M	3.0	0.82	13.0	20	8.0	FAPM 0604H-100M	4.0	10.0	3.0	4.5	105

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Test Frequency : 100KHz / 0.25Vdc
 Testing Instrument : L:HP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
 Heat Rated Current (I_{rms}) will cause the coil temperature rise approximately, T=40 without core loss.
 Saturation Current (I_{sat}) will cause L₀ to drop approximately 20%
 The part temperature (ambient + temp rise) should not exceed 125 under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
 Operating Temperature & Storage Temperature: -40 - +105 .



Dimensions(mm)

Series	A(mm)	A1(mm)	B(mm)	C(mm)	C1(mm)	D(mm)	E(mm)	L(mm)	G(mm)	M(mm)	Fig	
FAPM 0603	6.86	0.5	7.8 max.	7.0 max.	3.0 max.	3.2 max.	1.6 0.5	2.1 0.5	8.7	3.7	3.5	1
FAPM 0604	6.86	0.5	7.8 max.	7.0 max.	4.0 max.	4.2 max.	1.6 0.5	2.1 0.5	8.7	3.7	3.5	1

Note:All specifications subject to change without notice.