Expertise In Ferrites & **FERRIWO**

HIGH CURRENT POWER INDUCTORS **FWPM 1205P,1254P3 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.
- Ultra low buzz noise, due
 Frequency up to 5MHz.
- The products contain no lead and also support lead-freesoldering.

OPTIONS:

- Tape & Reel is Standard (Qty:600pcs.)
- Bulk packaging Available
- for Smaller Quantities
- Tolerance:M=20% ,N=30% is Standard,Tighter Tolerances Available



COMMON APPLCATIONS:

- Excellent for power line DC–DC conversion
- Applications used in power switching
 - Personal computers and other handheldelectronic equipment.
- tities hand

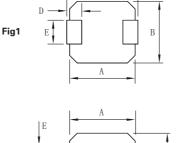
ELECTRICAL CHARACTERISTICS:											
Part Number	Thickness (mm)max.	Inductance L0(µH) ± 20% @0Adc	l rms (A)	l sat (A)	DCR (mΩ)max.	Part Number	Thickness (mm)max.	Inductance L0(µH) ± 20% @0Adc	l rms (A)	l sat (A)	DCR (mΩ)max.
FWPM1205P-R36M	5.0	0.36	41	75	1.1	FWPM 1254P3-R68M	5.4	0.68	29.7	38.8	1.5
FWPM1205P-R47M	5.0	0.47	38	65	1.3	FWPM 1254P3-1R0M	5.4	1.00	25.7	33.6	2.0
FWPM1205P-R50M	5.0	0.50	36	55	1.5	FWPM 1254P3-1R2M	5.4	1.20	23.1	26.9	2.6
FWPM1205P-R56M	5.0	0.56	36	55	1.5	FWPM 1254P3-2R2M	5.4	2.20	17.8	19.6	4.5
FWPM1205P-R68M	5.0	0.68	34	54	1.7	FWPM 1254P3-3R3M	5.4	3.30	14.4	17.5	7.0
FWPM1205P-1R0M	5.0	1.00	29	50	2.5	FWPM 1254P3-4R7M	5.4	4.70	12.8	14.9	8.8
FWPM1205P-1R5M	5.0	1.50	23	48	4.1						

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

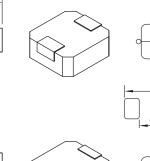
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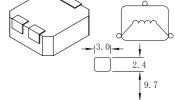
D

- Test Frequency : 100KHz / 0.25Vdc
- Testing Instrument : L:HP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- Heat Rated Current (Irms) will cause the coil temperature rise approximately, ∆T=40°C without core loss.
- Saturation Current (Isat) will cause L0 to drop approximately 20%
- The part temperature (ambient + temp rise) should not exceed 125°C 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°C - +105°C.



A1





5.0

2.9

Dimensions(mm)

A

2.5

B

C1

Series	A(mm)	A1(mm)	B(mm)	C(mm)	C1(mm)	D(mm)	E(mm)	F(mm)	L(mm)	G(mm)	H(mm)	Fig
FW PM 1205	12.7 ± 0.3	13.9 max.	13.5 max.	5.0 max.	5.2 max.	2.5 ± 0.5	3.0 ± 0.5		15.0	7.0	4.5	1
FWPM 1254	12.9 ± 0.3	13.9 max.	13.9 max.	5.3 max.	5.4 max.	7.6 ± 0.3	2.0 ± 0.3	2.0 ± 0.3	Refer to fig 1			2