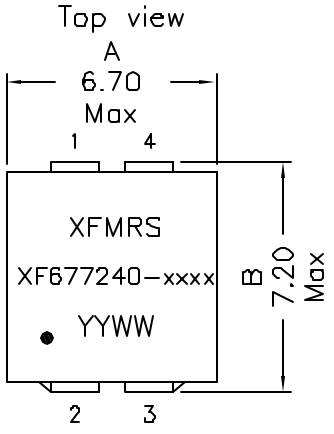
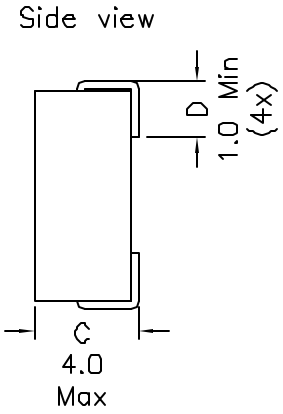
XF677240-xxxx SERIES INDUCTORS

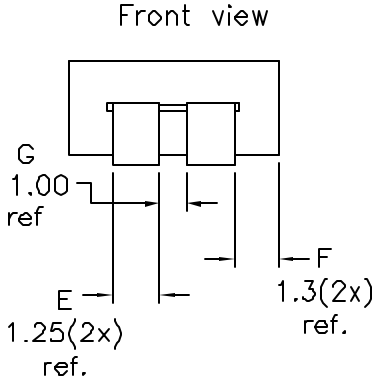
* Surface mount inductors designed for higher speed switch mode applications requiring lower inductance and high corrent.
* Dual conductors allow for low inductance and high current or high inductance and lower current.
* Inductance range from 0.047uH to 0.480uH
* Current range up to 42 Amps.
* Meets UL 94V-0 flammability standard.

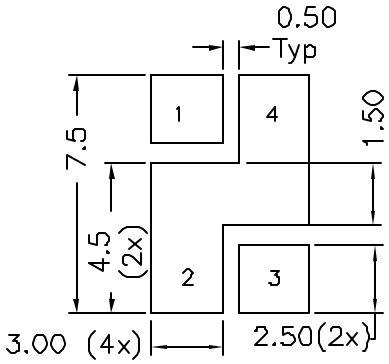
Mechanical Dimensions:



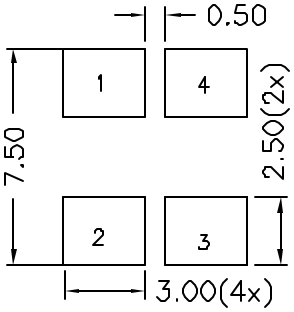
PCB PAD LAYOUT







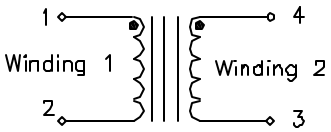
Series Mode



2 Winding Mode

Dimensions in mm
Tolerances .XX± 0.25

Schematic:



XFMRS

XF677240-xxxx SERIES INDUCTORS

Series Mode

Part Number	Inductance uH ref. (rated)	OCL (1) uH ref.	I RMS (2) Amps	I STA (3) Amps	DCR (4) Ohm ref.	Height	Volt-u Sec(VuS) ref. (4)
XF677240-D047	0.188	0.188	16.0	21.0	0.0013	4.00	1.50
XF677240-F068	0.272	0.273	16.0	16.0	0.0013	4.00	1.50
XF677240-D082	0.328	0.328	16.0	13.0	0.0013	4.00	1.50
XF677240-D100	0.400	0.400	16.0	11.0	0.0013	4.00	1.50
XF677240-D120	0.480	0.480	16.0	9.0	0.0013	4.00	1.50

Parallel Mode

Part Number	Inductance uH (rated)	OCL (1) uH±20%	I RMS (2) Amps	I STA (3) Amps	DCR (4) Ohm nom.	Height	Volt-u Sec(VuS) ref. (4)
XF677240-D047	0.047	0.047	37.0	42.0	0.00026	4.00	0.75
XF677240-F068	0.068	0.068	37.0	32.0	0.00026	4.00	0.75
XF677240-D082	0.082	0.082	37.0	26.0	0.00026	4.00	0.75
XF677240-D100	0.100	0.100	37.0	22.0	0.00026	4.00	0.75
XF677240-D120	0.120	0.120	37.0	18.0	0.00026	4.00	0.75

(1) Open Circuit Inductance Test Parameters: 1MHz, 0.25Vrms, 0.0Adc.
(2) RMS current for an approximate T of 40°C without core loss, It is recommended that the temperature of the part not exceed 125°C.
(3) Peak current for approximately 30% rolloff at 20°C.
(4) DCR limits 20°C.
(5) Applied Volt-Time product (V-uS) across the inductor, this value represents the applied V-uS at 500KHz necessary to generate a core loss equal to 10% of the total losses for 40°C temperature rise.

Notes:

1. Solderability: Leads shall meet MIL-STD-202G, Method 208H for solderability.
2. Flammability: UL94V-0
3. ASTM oxygen index: > 28%
4. Insulation System: Class F 155°C. UL file E151556
5. Operating Temperature Range: All listed parameters are to be within tolerance from -40°C to +85°C
6. Storage Temperature Range: -55°C to +125°C
7. Aqueous wash compatible
8. SMD Lead Coplanarity: ±0.004"(0.102mm)
9. Electrical and mechanical specifications 100% tested
10. RoHS Compliant Component