

CCFL- Series Transformers

- ◆ Transformers for use in CCFL power supplies
- ◆ Supply output current up to 30 milli-Amps
- ◆ Frequency range from 40 to 80KHz
- ◆ Deliver output power from 2.5 to 14 Watts
- ◆ Ferrite core material

2.5 WATT VERSIONS

Part Number	Pout watts	OCL typ (uH)	DCR Max (Ω) Pri	DCR Max (Ω) Sec	Turns Ratio Ns/Np ±2%	Vpri volts Max	Vsec volts Max	Is Max	Vpri abnormal	Vsec abnormal	Mech Diagram	EE Schematic
XF110652	2.5	43	0.22	285	67	20	1340	0.005	30	2000	A	A
XF110655	2.5	43	0.22	285	67	20	1340	0.005	30	2000	A	B
XF110657	2.5	26	0.19	285	86	15	1340	0.005	23	2000	A	B
XF110659	2.5	19	0.22	285	100	13	1340	0.005	23	2000	A	B
XF210652	2.5	43	0.22	285	67	20	1340	0.005	30	2000	B	A
XF210655	2.5	43	0.22	285	67	20	1340	0.005	30	2000	B	B
XF210657	2.5	26	0.21	285	86	15	1340	0.005	23	2000	B	B
XF210659	2.5	19	0.19	285	100	13	1340	0.005	23	2000	B	B

4 WATT VERSIONS

Part Number	Pout watts	OCL typ (uH)	DCR Max (Ω) Pri	DCR Max (Ω) Sec	Turns Ratio Ns/Np ±2%	Vpri volts Max	Vsec volts Max	Is Max	Vpri abnormal	Vsec abnormal	Mech Diagram	EE Schematic
XF210403	4	44	0.22	165	50	26	1340	0.007	40	2000	C	C
XF210407	4	27	0.16	220	86	15	1340	0.007	23	2000	C	C
XF210409	4	20	0.16	220	100	13	1340	0.007	23	2000	C	C
XF210411	4	20	0.16	330	125	10	1340	0.007	16	2000	C	C
XF310403	4	44	0.22	165	50	26	1340	0.007	40	2000	D	C
XF310407	4	27	0.16	220	86	15	1340	0.007	23	2000	D	C
XF310409	4	20	0.16	220	100	13	1340	0.007	23	2000	D	C
XF310411	4	20	0.16	330	125	10	1340	0.007	16	2000	D	C

6 WATT VERSIONS

Part Number	Pout watts	OCL typ (uH)	DCR Max (Ω) Pri	DCR Max (Ω) Sec	Turns Ratio Ns/Np ±2%	Vpri volts Max	Vsec volts Max	Is Max	Vpri abnormal	Vsec abnormal	Mech Dia-gram	EE Schematic
XF110600	6	44	0.16	176	67	20	1340	0.011	30	2000	E	D
XF110603	6	44	0.16	132	50	26	1340	0.011	40	2000	E	C
XF110605	6	44	0.16	176	67	20	1340	0.011	30	2000	E	C
XF110607	6	27	0.132	176	86	15	1340	0.011	23	2000	E	C
XF110609	6	20	0.132	176	100	13	1340	0.011	23	2000	E	C
XF110611	6	20	0.132	291	125	11	1340	0.011	16	2000	E	C
XF210600	6	44	0.16	176	67	20	1340	0.011	30	2000	F	D
XF210603	6	44	0.16	132	50	26	1340	0.011	40	2000	F	C
XF210605	6	44	0.16	176	67	20	1340	0.011	30	2000	F	C
XF210607	6	27	0.132	176	86	15	1340	0.011	23	2000	F	C
XF210609	6	20	0.132	176	100	13	1340	0.011	23	2000	F	C
XF210611	6	20	0.132	291	125	11	1340	0.011	16	2000	F	C

14 WATT VERSIONS

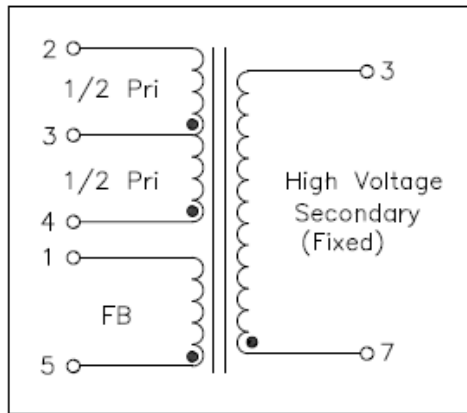
Part Number	Pout watts	OCL typ (uH)	DCR Max (Ω) Pri	DCR Max (Ω) Sec	Turns Ratio Ns/Np ±2%	Vpri volts Max	Vsec volts Max	Is Max	Vpri abnormal	Vsec abnormal	Mech Dia-gram	EE Schematic
XF410805	14	24	0.030	262	67	20	1340	0.030	30	2000	G	E
XF410807	14	16	0.024	272	86	15	1340	0.030	30	2000	G	E
XF410809	14	16	0.024	314	100	13	1340	0.030	30	2000	G	E

Notes:

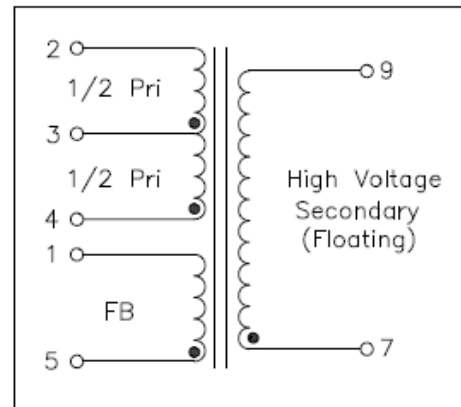
1. Solderability: Leads shall meet MIL-STD-2020G, Method 208H for solderability
2. Flammability: UL94V-0
3. ASTM oxygen index: > 28%
4. Insulation System: Class F 155°C. UL file E151556
5. All listed parameters are to be within tolerance from -40°C to +85°C unless otherwise noted
6. Storage Temperature Range: -55°C to +125°C
7. Aqueous wash compatible
8. Electrical and mechanical specifications 100% tested
9. RoHS Compliant Component

Schematic:

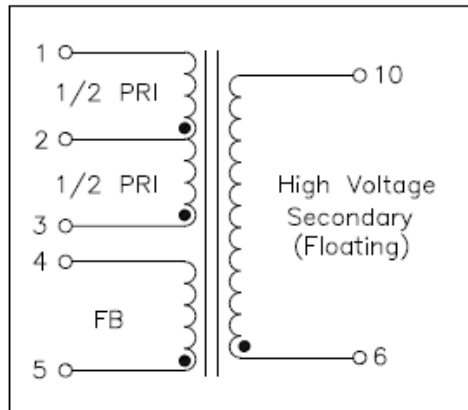
Schematic: A



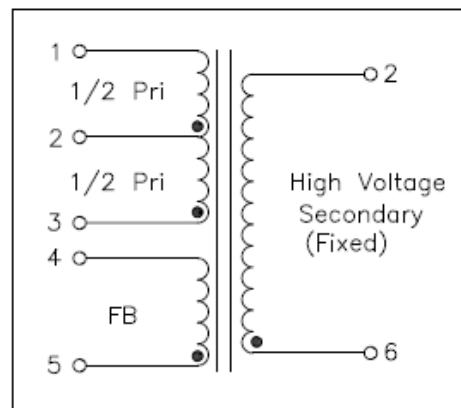
Schematic: B



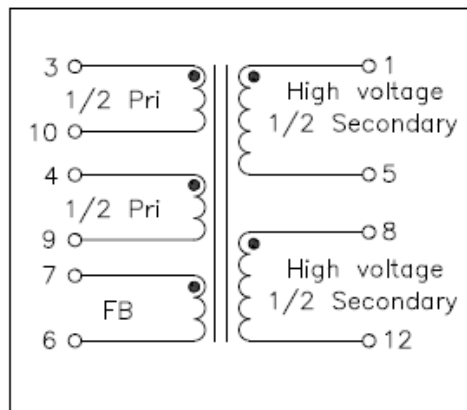
Schematic: C



Schematic: D



Schematic: E



SMD

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 : 0°C to +70°C
6. Storage Temperature Range: -40°C to +85°C
7. Aqueous wash compatible
8. SMD Lead Coplanarity: ±0.004"(0.102mm)
9. Electrical and mechanical specifications 100% tested
10. RoHS Compliant Component
11. Recommended IR Reflow peak temp of 250°C Max.

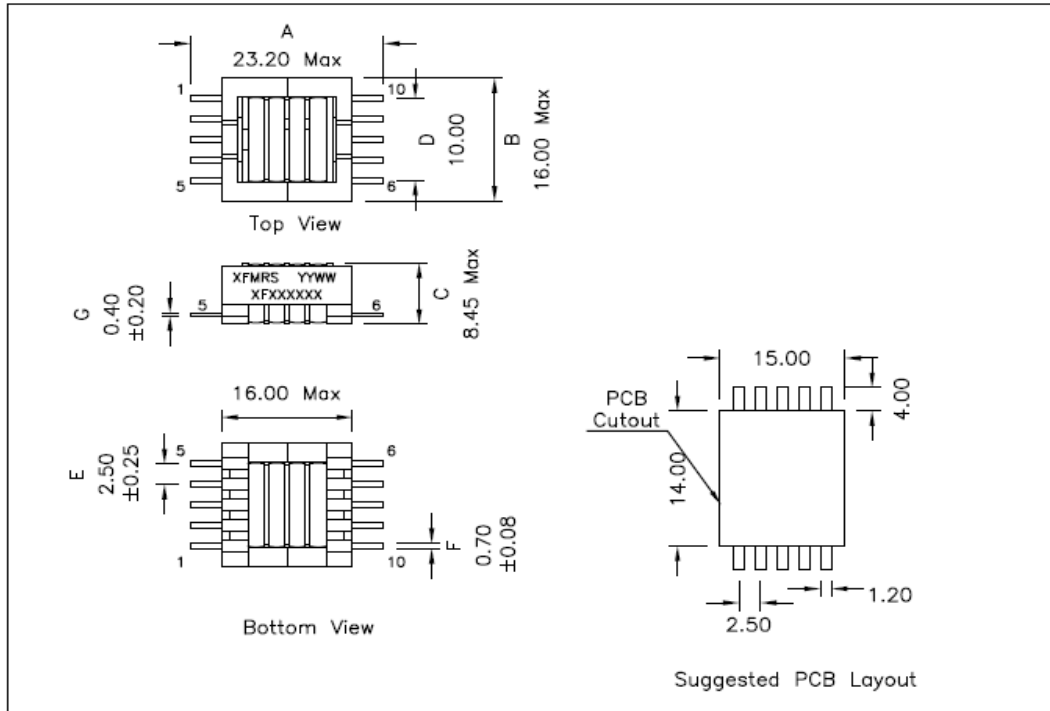
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Notes:

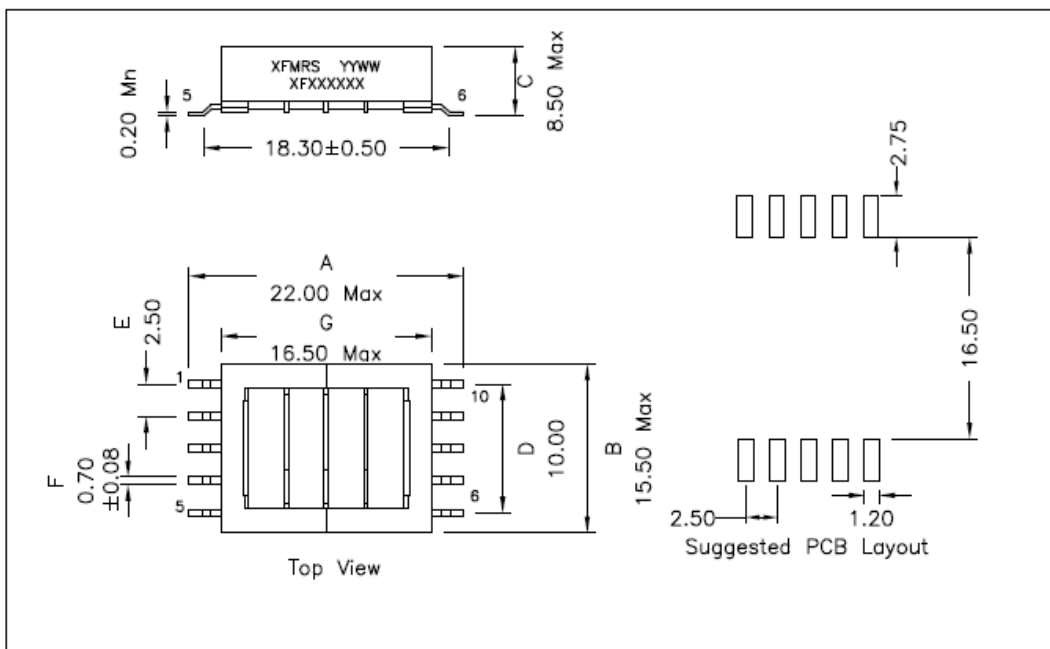
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5. Operating Temperature : 0°C to +70°C
6. Storage Temperature Range: -40°C to +85°C
7. Aqueous wash compatible
8. Electrical and mechanical specifications 100% tested
9. RoHS Compliant Component

Mechanical Dimensions

Mechanical A

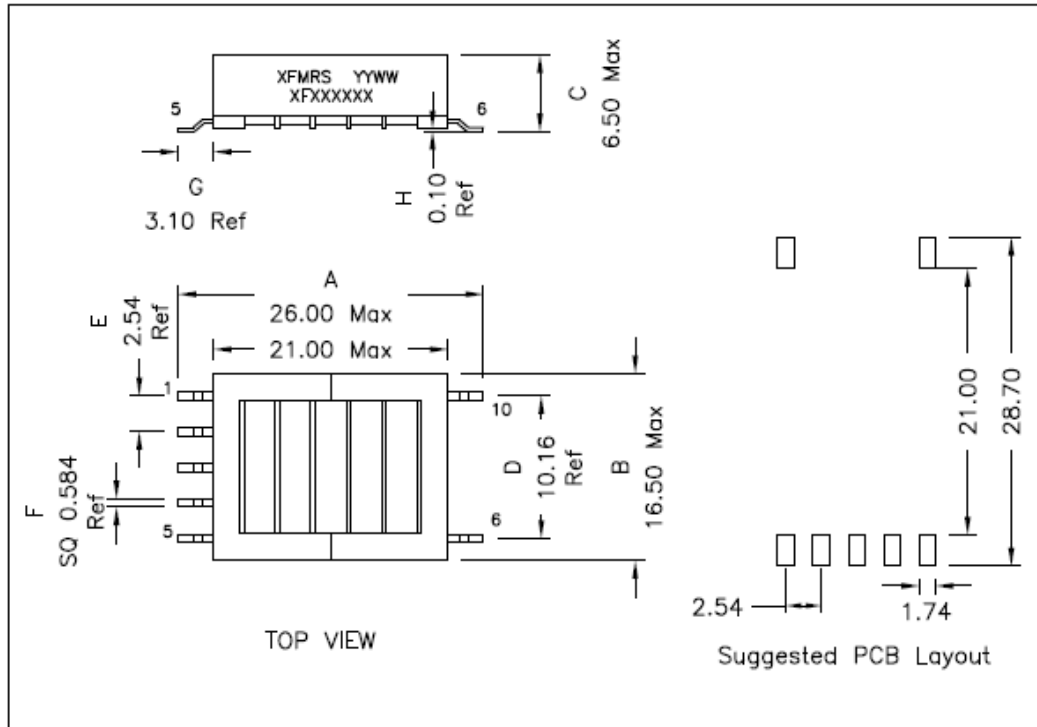


Mechanical B

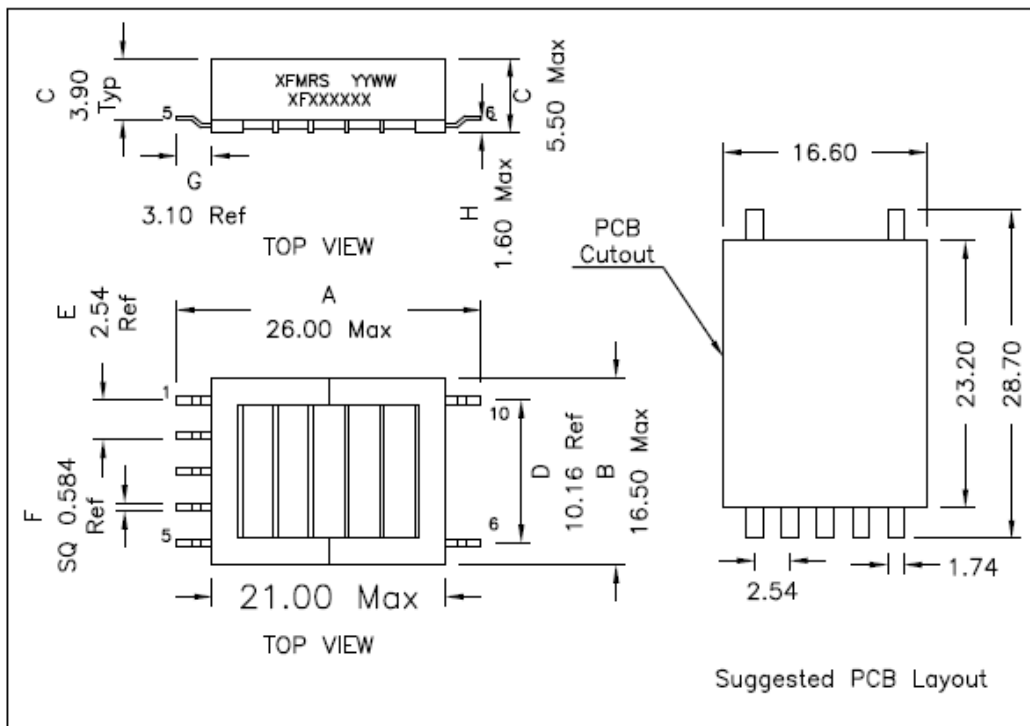


TOLERANCES:
.xx ±0.25
Dimensions in MM

Mechanical C

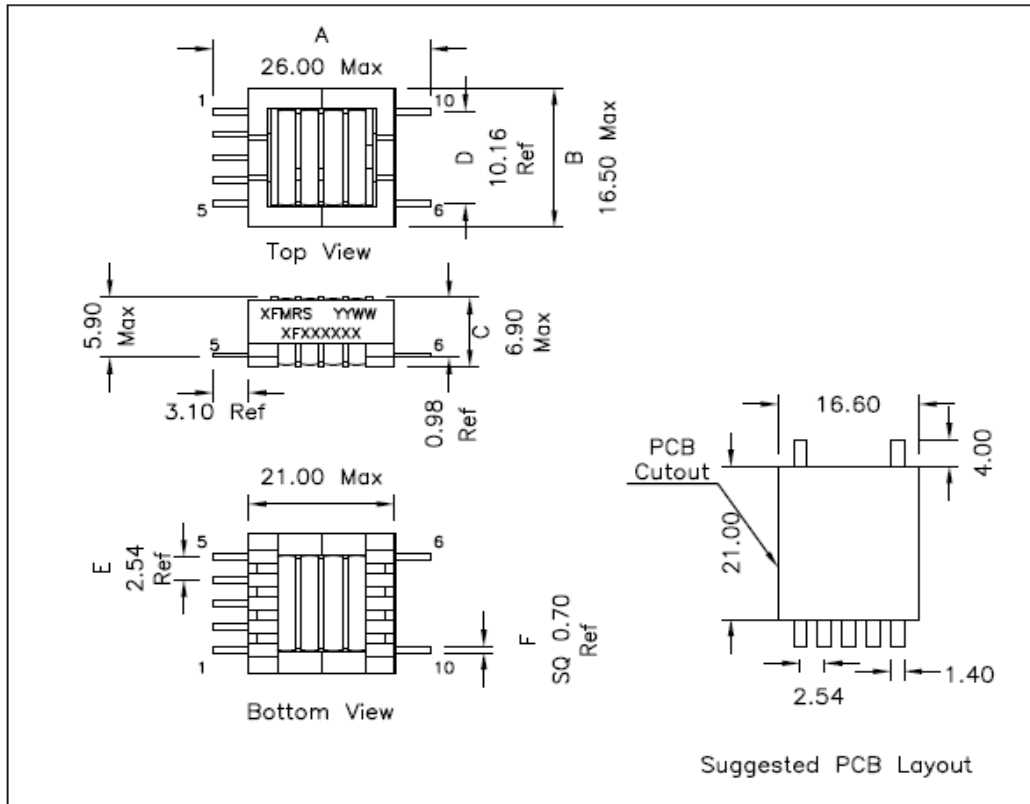


Mechanical D

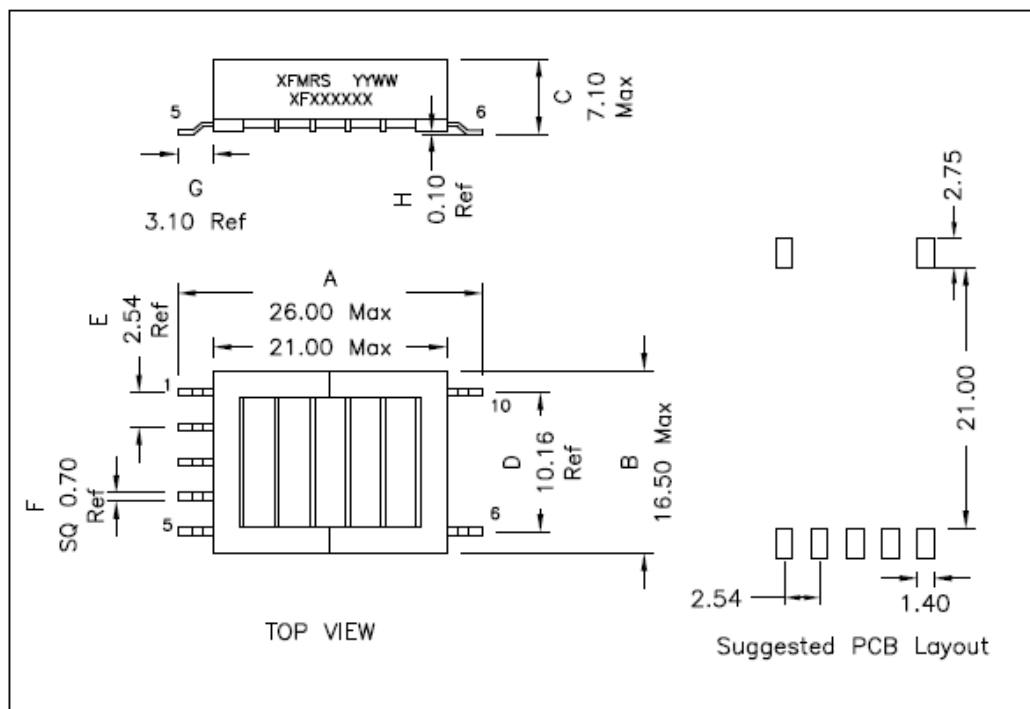


TOLERANCES:
.xx ±0.25
Dimensions in MM

Mechanical E

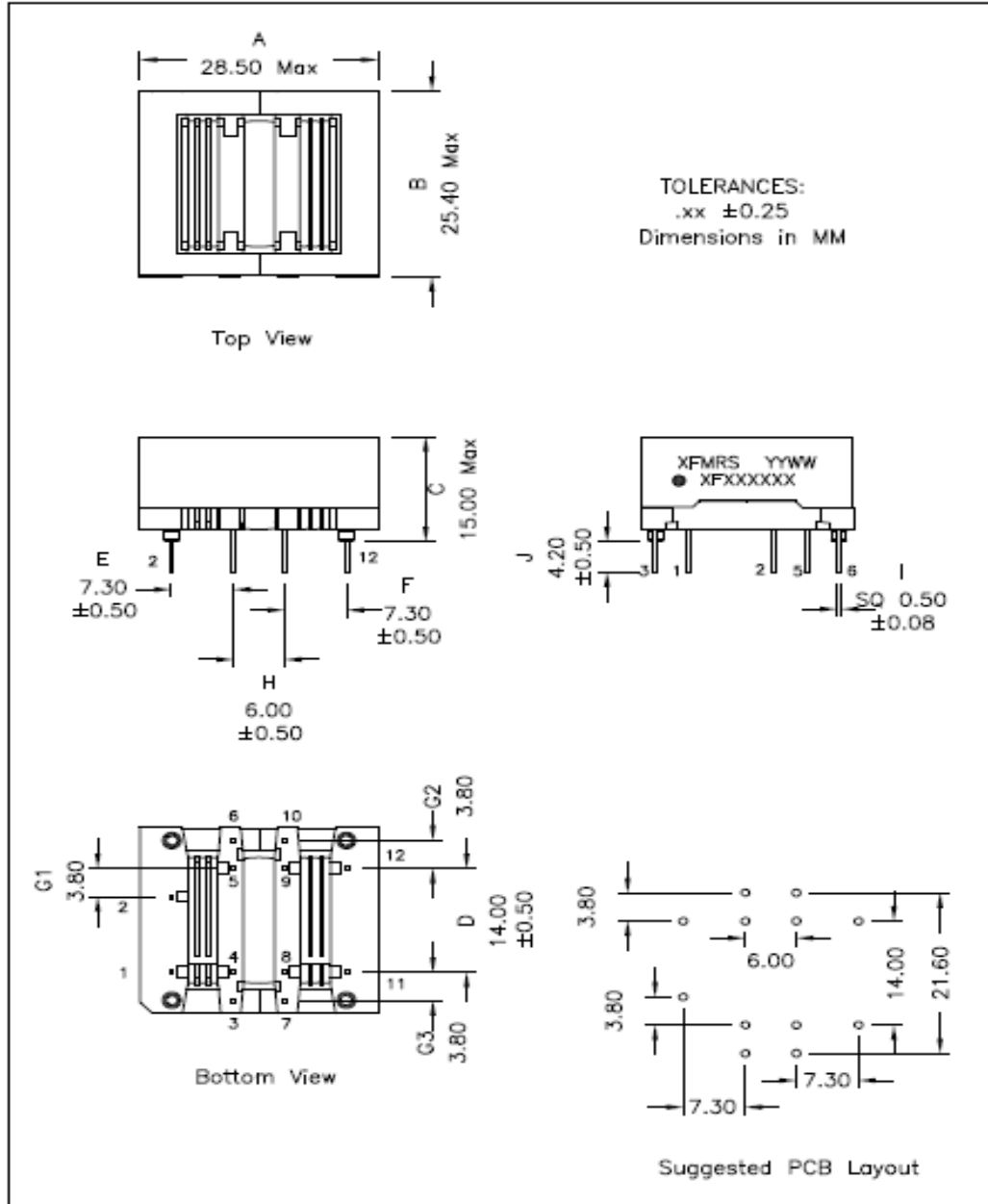


Mechanical F



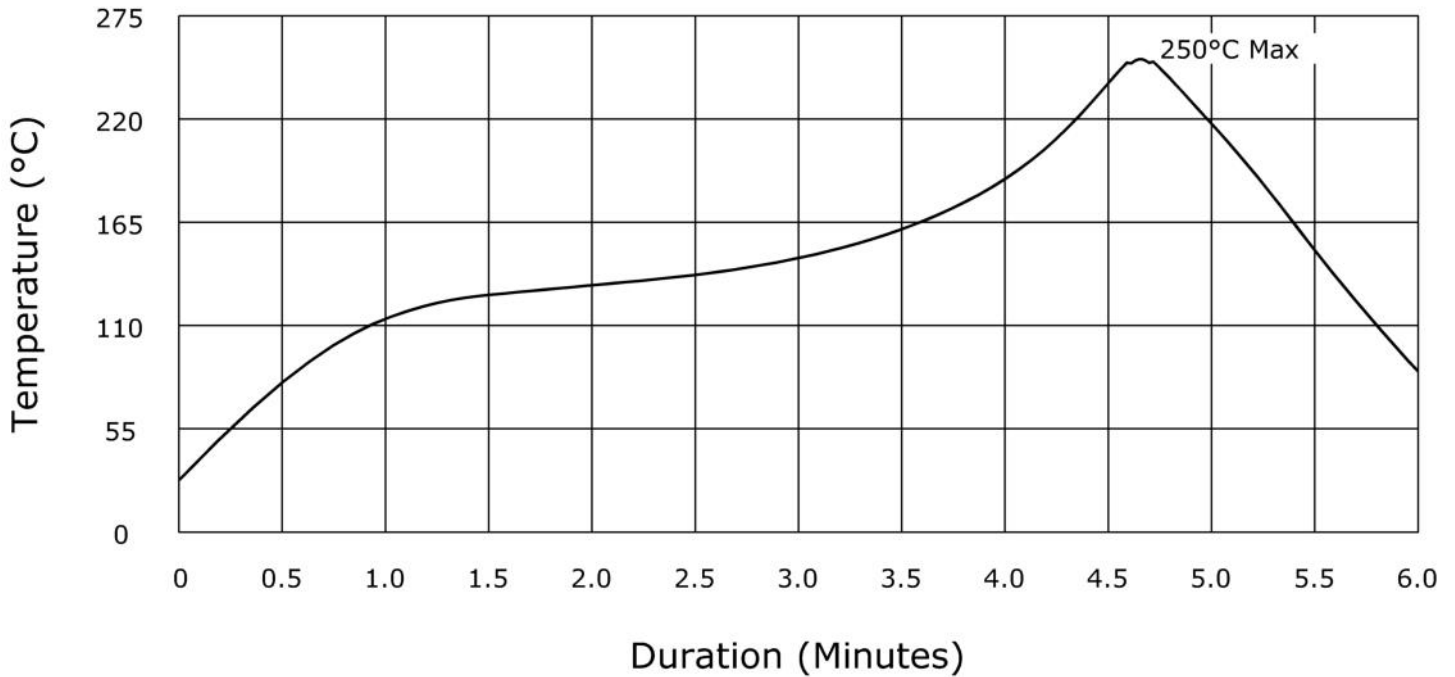
TOLERANCES:
.xx ±0.25
Dimensions in MM

Mechanical G



TOLERANCES:
.xx ±0.25
Dimensions in MM

Recommended IR Reflow Profile:



NOTES: Maximum duration at 250°+0/-5° shall be 10-15 seconds.
Maximum duration above 217° shall be 50-120 seconds.
ALL Temperatures refer to topside of the package, measured on the package body surface.

Pin Plating Cross-Section

