

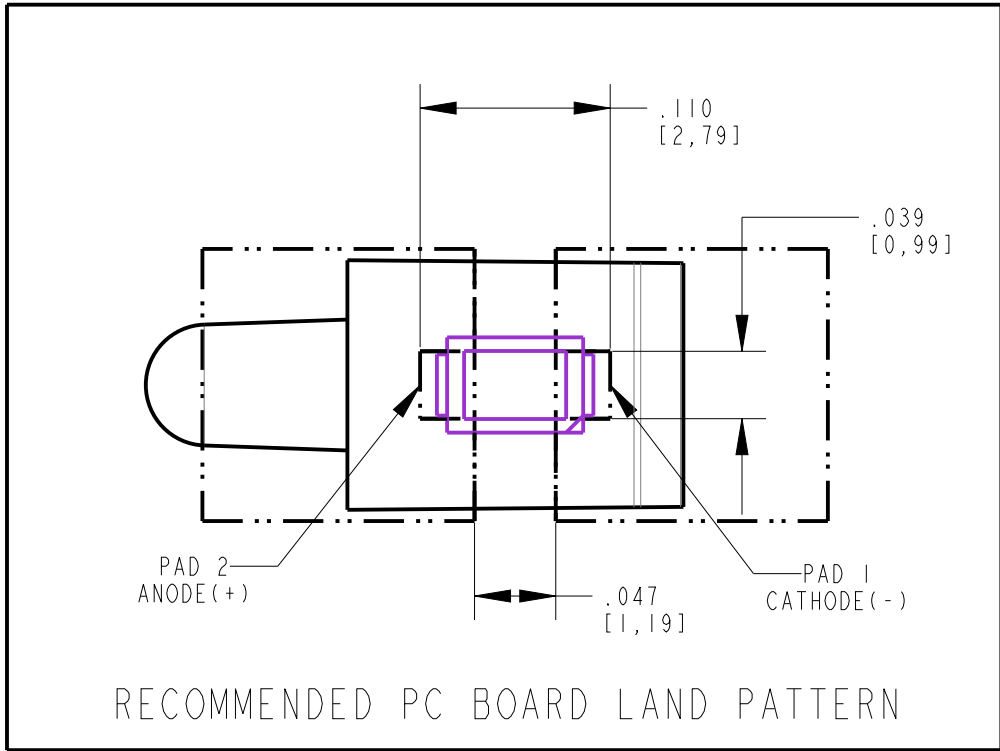
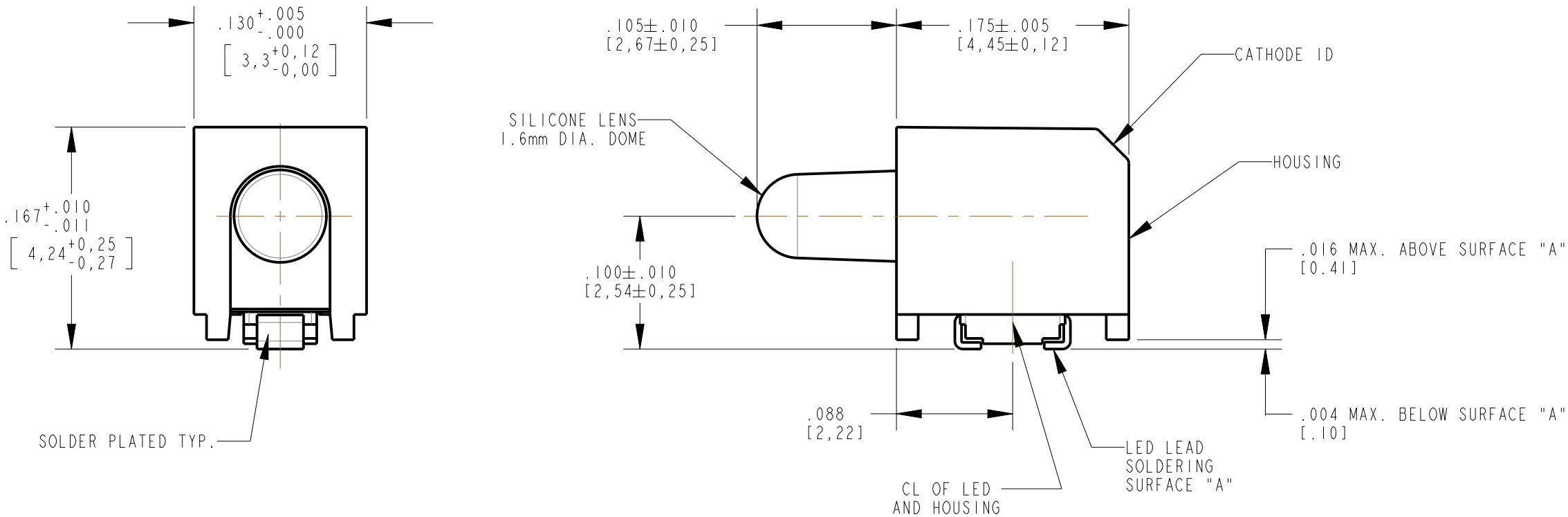
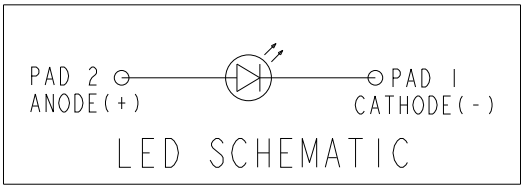
PART NUMBER	LED COLOR	MSL
594-2001-002F	RED	3
594-2001-007F		
594-2001-013F		
594-2501-002F	ORANGE	3
594-2501-007F		
594-2501-013F		
594-2401-002F	YELLOW	3
594-2401-007F		
594-2401-013F		
594-2301-002F	YELGRN	3
594-2301-007F		
594-2301-013F		
594-2901-002F	GREEN	3
594-2901-007F		
594-2901-013F		
594-2804-002F	WHITE - 2MA	2
594-2804-007F		
594-2804-013F		
594-2004-002F	RED - 2MA	2
594-2004-007F		
594-2004-013F		
594-2404-002F	YELLOW - 2MA	2
594-2404-013F		
594-2504-002F	ORANGE - 2MA	2
594-2504-007F		
594-2504-013F		
594-2604-002F	ICE BLUE - 2MA	2
594-2604-007F		
594-2604-013F		

ABSOLUTE MAXIMUM RATINGS AT 25°C FOR 20mA PARTS							
LED COLOR	POWER DISSIPATON (mW)	FORWARD CURRENT (mA)	PEAK FORWARD CURRENT (mA)	REVERSE VOLTAGE (V)	OPERATING TEMPRATURE (°C)	STORAGE TEMPERATURE (°C)	JUNCTION TEMPRATURE (°C)
RED	48	20	100	5	-40 TO +85	-40 TO +100	90
ORANGE	60		80				90
YELLOW	48		100				90
YELLOW GREEN	48		100				90
GREEN	70		100				95

OPERATING CHARACTERISTICS AT 25°C FOR 20mA PARTS											
LED COLOR		LUMINOUS INTENSITY (mcd)			DOMINANT WAVELENGTH (nm)			REVERSE CURRENT	FORWARD VOLTAGE (V)		THERMAL RESISTIVITY (°C/W)
		IF (mA)	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	TYP.	MAX.	
RED	20		54		625			10µA @ VR=5V	1.8	2.4	290
ORANGE			38		605				1.8	2.4	290
YELLOW			48		590				1.8	2.4	290
YELLOW GREEN			9		570				1.8	2.4	290
GREEN			312		525				2.8	3.5	110

OPERATING CHARACTERISTICS AT 25°C 2mA PARTS															
LED COLOR (nm)	TEST CONDITION	CHROMACITY COORDINATE		LUMINOUS INTENSITY (mcd)			DOMINANT WAVELENGTH (nm)			REVERSE CURRENT	FORWARD VOLTAGE (V)			VIEWING ANGLE (DEG)	THERMAL RESISTIVITY (°C/W)
	IF (mA)	Cx	Cy	MIN.	TYP.	MAX.	MIN	TYP.	MAX	MAX	MIN.	TYP.	MAX.	@ 50% IV	
RED (630)	2				2		624	630	636	10μA @ VR=12V	1.7	1.8	2.2	120	R,O,Y +280 B,W +230
ORANGE (606)					3		600	606	609		1.7	1.8	2.2		
YELLOW (588)					2.2		580	587	595		1.7	1.8	2.2		
ICE BLUE				0.2	0.3		3			10μA @ VR=5V	2.5	2.75	3.1		
WHITE				.33	.33		5			10μA @ VR=5V	2.5	2.75	3.1		

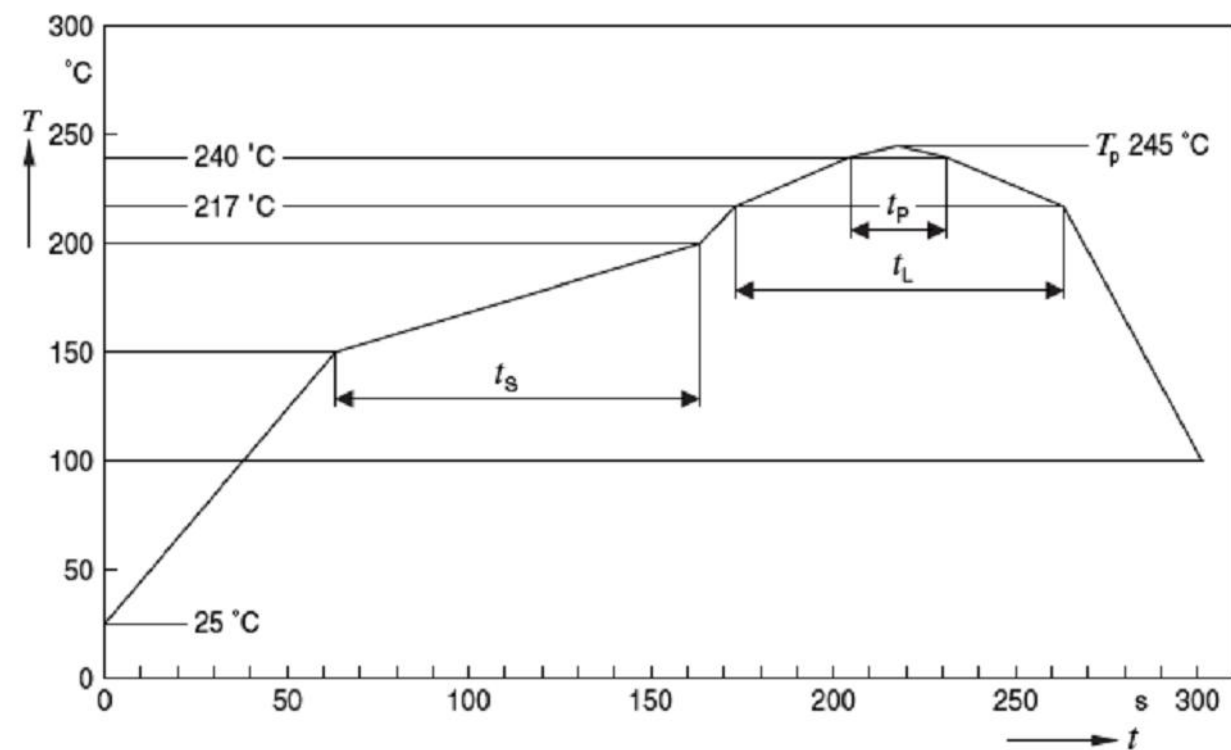
ABSOLUTE MAXIMUM RATINGS AT 25°C FOR 2mA PARTS						
LED COLOR (nm)	FORWARD CURRENT (mA)	SURGE CURRENT (mA) t<10µs; D =.005	REVERSE VOLTAGE (V)	OPERATING TEMPRATURE (°C)	STORAGE TEMPERATURE (°C)	JUNCTION TEMPRATURE (°C)
RED (630)	20	100	12	-40 TO +100	-40 TO +100	+100
ORANGE (606)	20	100				
YELLOW (588)	20	100				
ICE BLUE	15	150	5			
WHITE	20	200	5			



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

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DIALIGHT CORP INTERNAL REFERENCE ONLY - 3D MODEL : 5942X0X0XF-A-8		
SCALE: 10.000	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM)	C-18409	B
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE	MATERIAL
FRACTIONS: ±1/64	MINI PRISM - ROUND LENS 1.6mm DIA.	
DECIMALS (.XX): ±.01		
DECIMALS (.XXX): ±.005		
DECIMALS (.XXXX): ±.0005		
ANGLES: ±1°		
FINISH		
FSCM 83330		
SHEET 1 OF 2	FAMILY TABLE:	

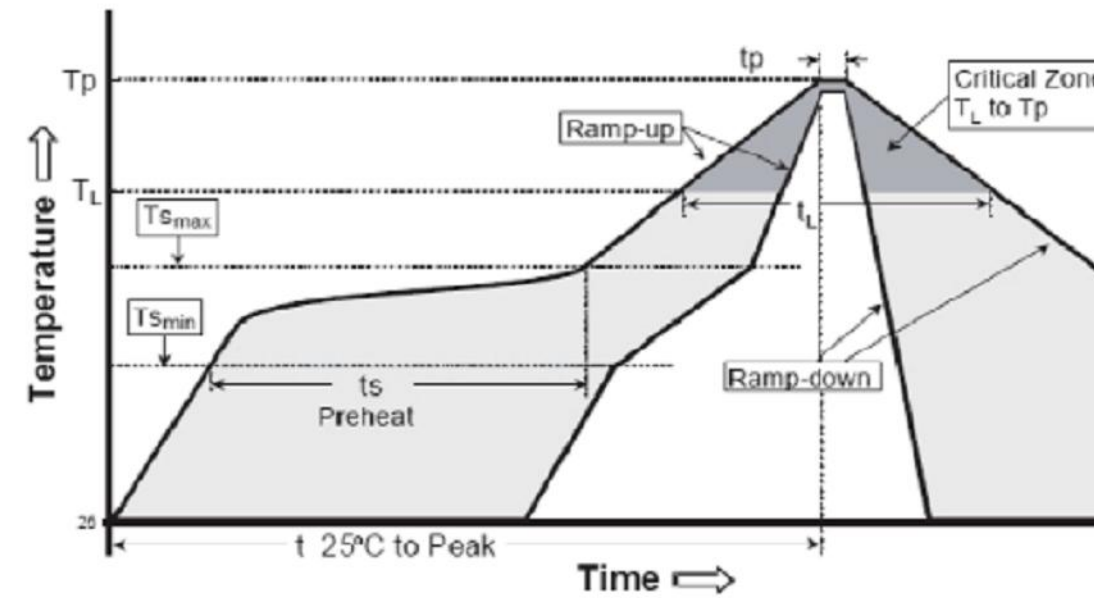
2mA LED
RECOMMENDED RoHS SOLDER PROFILE



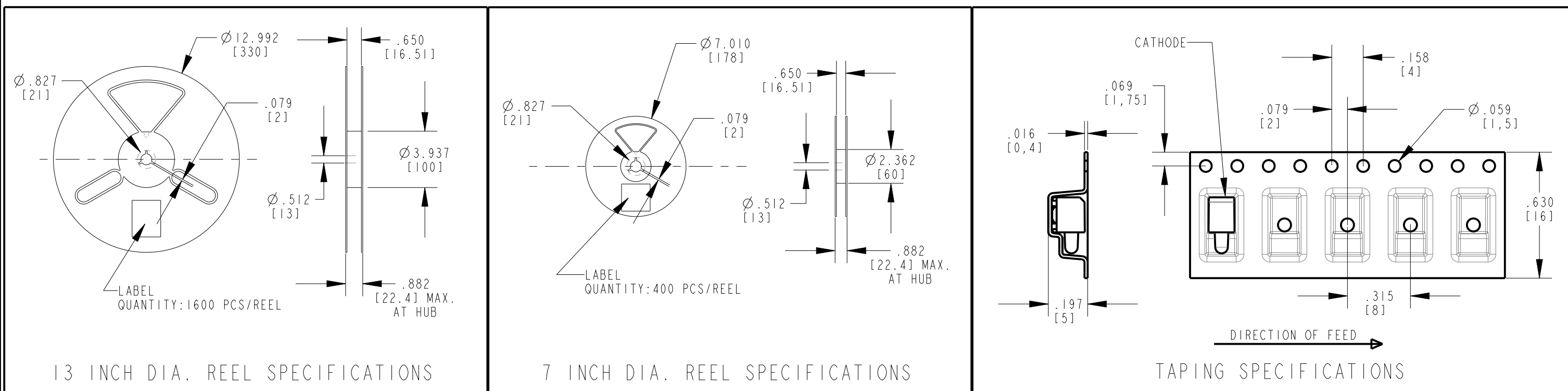
MARK	DEFINITION	CONDITION
TS _{max}	Maximum of pre-heating temperature	260 °C
TS _{min}	Minimum of pre-heating temperature	150 °C
T _s	Time form Tsmin to Tsmax	60-120 sec
T _L	Reference temperature	217 °C
t _L	Retention time for TL	within 80s
T _p	Peak Temperature	245 °C
t _p	Time for peak temperature	within 20s
DTr/Dt	Temperature rising rate	under 3° C/sec
DTd/Dt	Temperature decreasing rate	under -3° C/sec

20mA LED
RECOMMENDED RoHS SOLDER PROFILE

SMT Reflow Soldering Instructions SMT



MARK	DEFINITION	CONDITION
TS _{max}	Maximum of pre-heating temperature	200 °C
TS _{min}	Minimum of pre-heating temperature	150 °C
T _s	Time form Tsmin to Tsmax	60-120 sec
T _L	Reference temperature	217 °C
t _L	Retention time for TL	within 60s
T _p	Peak Temperature	260 °C
t _p	Time for peak temperature	within 10s
DTr/Dt	Temperature rising rate	under 3° C/sec
DTd/Dt	Temperature decreasing rate	under -3° C/sec



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DIALIGHT CORP. INTERNAL REFERENCE ONLY - 3D MODEL: 9100126384099-A.2		
SCALE: 2.000	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM)	C-18409	B
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE	
FRACTIONS: ±1/64	MINI PRISM - ROUND LENS 1.6mm DIA.	
DECIMALS (.XX): ±.01	MATERIAL	
DECIMALS (.XXX): ±.005		
DECIMALS (.XXXX): ±.0005		
ANGLES: ±1°		
FINISH		
FSCM 83330		
SHEET 2 OF 2	FAMILY TABLE:	