F17250B/F17350B & F17255B/F17355B Series

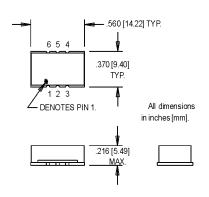


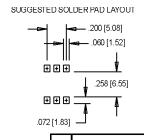


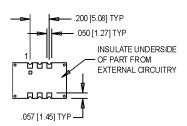




- Former Champion Product
- Clock Recovery, PLL, Optic Transmission Equipment, Digital Cross Connect Equipment





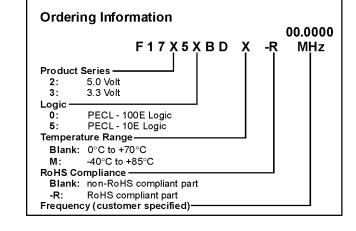


Enable/Disable Control

Pin 1	Outputs			
PIII I	Pin 4	Pin 5		
"0" Enables	Active	Active		
"1" Disables	Low	High		

Pin Connections

PIN	FUNCTION			
1	Control Voltage			
2	Enable/Disable			
3	Vss/Ground			
4	Output			
5	Output			
6	+Vcc			



	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes
	Frequency Range	F	75		180	MHz	
	Operating Temperature	TA	(See Order	(See Ordering Information)			
	Storage Temperature	Ts	-45		+125	°C	
	Frequency Stability	∆F/F					
	Overall		Inclusive of Voltage, Lo		on, Temperati ging		
	0°C to +70°C				±30		
	-40°C to +85°C				±50	ppm	
	Aging						
	1st Year		-4		+4	ppm	
	10 Year		-10		+10	ppm	
	Pullability/APR		±80		±140	ppm	75 to 156 MHz
			±60		±140	ppm	156.1 to 180 MHz
	Control Voltage	Vc	0.5	2.5	4.5	V	F17250B & F17255B
ü			0.3	1.65	3.0	V	F17350B & F17355B
Electrical Specifications	Linearity				10	%	Positive Monotonic Slope
ij	Modulation Bandwidth	fm	10			kHz	±3dB
Spe	Input Impedance	Zin	50k			Ohms	@ 10 kHz
la E	Input Voltage	Vcc	4.75	5.0	5.25	V	F17250B & F17255B
ij			3.135	3.3	3.465	V	F17350B & F17355B
i ii	Input Current	lcc			70	mA	
"	Output Type						PECL
	Load						See Note 1
	Symmetry (Duty Cycle)		45		55	%	Vcc -1.3 VDC
	Output Skew				50	ps	
	Logic "1" Level	Voh	Vcc -1.1		Vcc -0.88	V	50 Ω into Vcc-2
	Logic "0" Level	Vol	Vcc -1.95		Vcc -1.55	V	50Ω into Vcc-2
	Rise Time	Tr			450	ps	50Ω into 20% to 80%
	Fall Time	Tf			450	ps	50Ω into 80% to 20%
	Enable Function		PECL low:	output act	tive		
			PECL high:	output di			
	Start up Time				10	ms	
	Phase Jitter	φJ					
	@ 155.52 MHz				1	ps RMS	Integrated 12 kHz - 20 MHz
	Phase Noise (Typical)	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	Offset from carrier
	@ 155.52 MHz	-40	-70	-100	-120	-140	dBc/Hz
	Phase Noise (Typical)				10 kHz	100 kHz	Offset from carrier

1. PECL load - see load circuit diagram #5

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.