

HITACHI MICROCOMPUTER TECHNICAL UPDATE

DATE	4 September 2000	No.	TN-SH7-249A/E
THEME	SH7751 AC characteristics of CKIO		
CLASSIFICATION	<input type="checkbox"/> Spec change <input type="checkbox"/> Limitation on Use <input checked="" type="checkbox"/> Supplement of Documents		
PRODUCTNAME	HD6417751	Lot No.etc.	All
REFERENCE DOCUMENTS	SH7751 Hardware Manual	Rev.	EffectiveDate Eternity
		1	From

1. Contents

Two new AC parameters are added to SH7751 AC characteristics.

One is CKIO clock output high-level pulse width 2 (t_{CKOH2}) and the other is CKIO clock output low-level pulse width 2 (t_{CKOL2}).

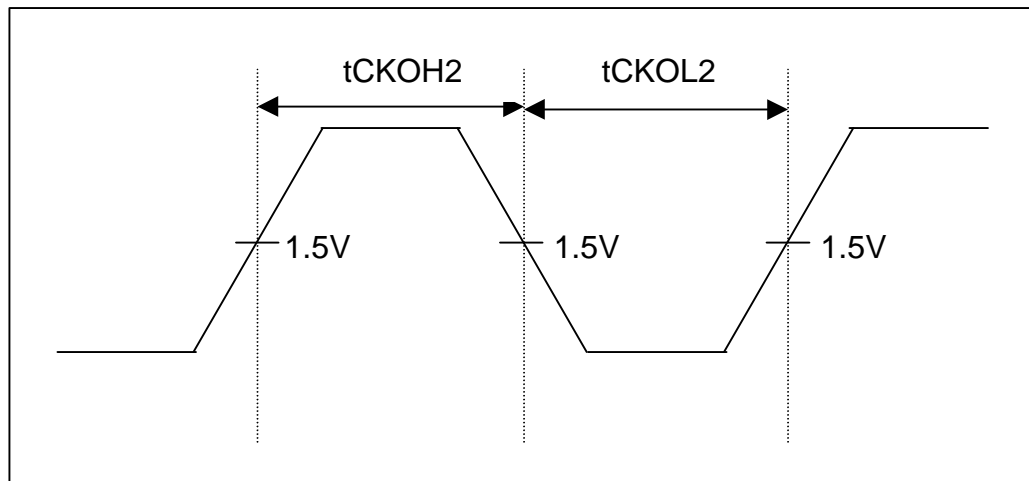


Figure 1. CKIO output Timing

Table 1. Clock Signal Timing

Product Name	Package	t_{CKOL2}		t_{CKOH2}		Unit
		Min.	Max.	Min.	Max.	
HD6417751	QFP	3	-	3	-	ns

[Note]. HD6417751F167 : V_{ddq} = 3.0 to 3.6V, V_{dd} =1.8V typ, T_a =-20 to 75°C, C_L =30pF
 HD6417751F167I : V_{ddq} = 3.0 to 3.6V, V_{dd} =1.8V typ, T_a =-40 to 85°C, C_L =30pF
 HD6417751VF133 : V_{ddq} = 3.0 to 3.6V, V_{dd} =1.5V typ, T_a =-20 to 75°C, C_L =30pF