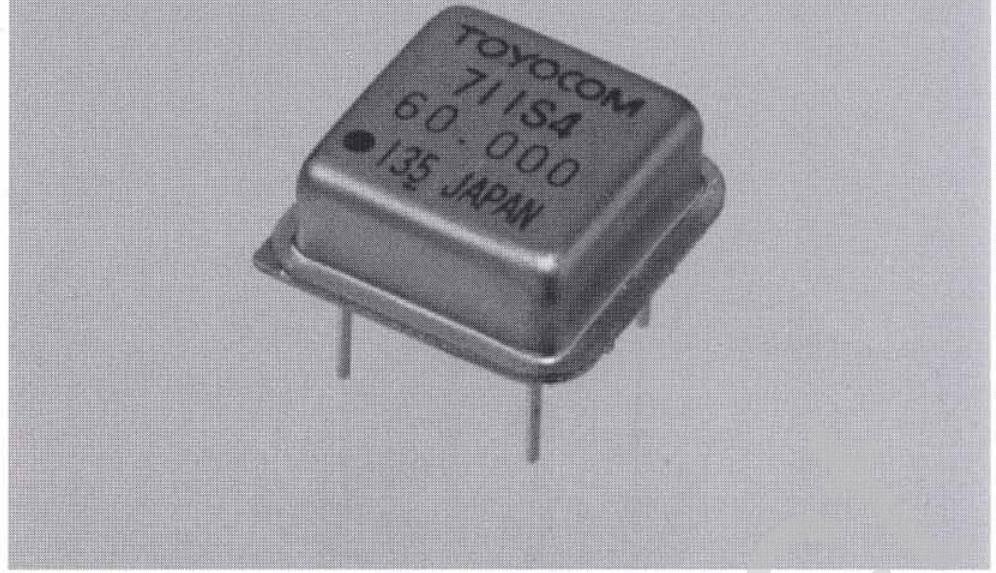


TCO-711S4 TCO-745S4 TCO-744S4

HALF DIP TTL



Features

- TTL logic output
- DIL-8 pin package compatible
- Hermetically sealed metal package
- Case ground 4-pin for minimizing RF radiation

Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Frequency range	FO	1.25	—	70	MHz	TCO-711S4
		1.25	—	60		TCO-745S4, TCO-744S4
Frequency stability	$\Delta F/F_0$	-100	—	100	ppm	TCO-711S4 *1
		-50	—	50		TCO-745S4
		-25	—	25		TCO-744S4
Operating temperature	Topr	0	25	70	°C	
Operating voltage	VCC	4.5	5.0	5.5	V	DC
Operating current	ICC	—	—	See Table A	mA	VCC = 5.5V
Output voltage	V _{OH}	2.4	—	—	V	I _{OH} = -4mA
	V _{OL}	—	—	0.4	V	I _{OL} = 16mA
Symmetry	SYM	45	50	55	%	at 1.4V
Rise/Fall time	tr,tf	—	—	See Table A	ns	at 0.4V to 2.4V / at 2.4V to 0.4V
Fanout	n	—	—	10	—	1.25 to 60MHz
Start-up time	t _{st}	—	—	5	—	60+ to 70MHz
		—	—	4	ms	1.25 to 26MHz *2
		—	—	10	ms	26+ to 70MHz *2

*1 Inclusive of calibration tolerance at 25°C, operating temperature, operating voltage range.

*2 Rise time (0 to 4.5V) of V_{CC} > 150μs

Table A

Freq.	1.25+ to 14	14+ to 26	26+ to 40	40+ to 70	MHz
I _{CC}	15	35	40	50	mA
tr,tf	10	10	10	5	ns

Test Circuit

See page 5 TEST-1.

Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Supply voltage	V _{CC}	-0.5 to +7.0	V
Input voltage	V _{IN}	-0.5 to V _{CC} +0.5	V
Output voltage	V _O	-0.5 to V _{CC} +0.5	V
Input current	I _{IN}	±10	mA
Output current	I _O	±25	mA
Storage temperature	T _{Stg}	-55 to +125	°C

Package outline

