

TIC 201868138

Eclipsing binary candidate dossier - Star Vetter

CLEAN

BLS EPHEMERIS		CATALOG CROSS-MATCH (novelty)	
Period	3.715790 d	VSX	no match
Epoch (t0)	1766.1184 BTJD	ASAS-SN	no match
Duration	0.1200 d	Gaia eclipsing-binary table	no match
Depth	5.881 % (58,810 ppm)	Gaia variable classification	no match
SNR	237.3	TESS EB catalog (Prsa+2022)	no match
INDEPENDENT CHECKS (f3i gates)		ExoFOP TOI list	no match
Eclipses observed	6 (gate >= 3)	Verdict:	NOVEL
Robust depth ratio	1.02 (gate >= 0.50)		
Robust depth sigma	94.6 (gate >= 7.0)		
Odd/even z-score	2.13 (consistent)		
Secondary eclipse	detected, phase 0.49, 5.7 sigma		

PIXEL-LEVEL SOURCE CHECK (TESScut difference imaging)

Sector 17 light-curve dip in this sector: 91.0 sigma t0 refined by -0.0050 phase

Difference-image peak SNR 17.83 (gate >= 5.0) Compactness 0.87 (gate >= 0.50)

Dimming centroid offset 0.13 px (3 arcsec) (gate <= 1.0 px, i.e. on the target)

Nearest bright-enough neighbour in cutout: TIC 201868134

0.59 px away, dTmag +1.95 - farther from the dimming than the target

