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Specifications Sheet

Generated: 2026-10-30

P/N: PLT-UN40F

PLT-UN40F Cold Plate, 40mm x 40mm (1.57in x 1.57in)

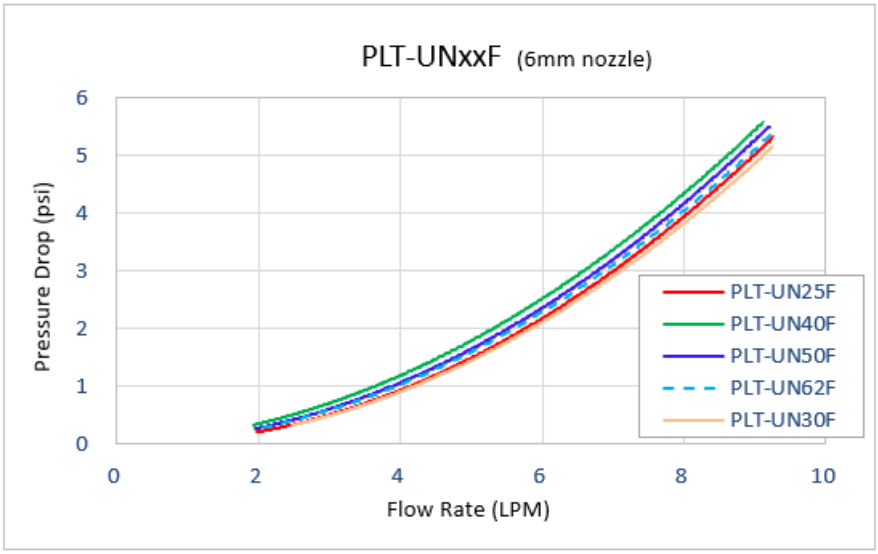


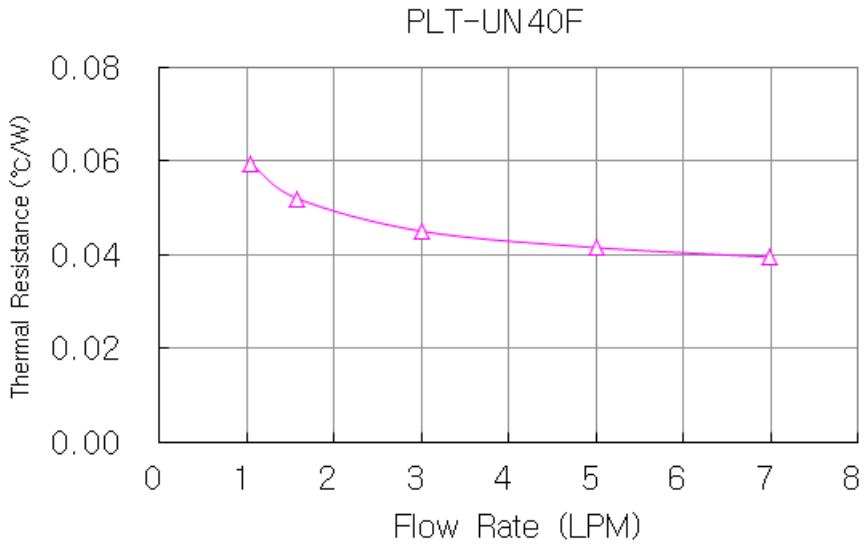
PLT-UN40F is a high-efficiency, general-purpose cold plate for thermal applications such as TEC, LED, image sensor, and semiconductor cooling. The cooling area footprint is 40mm x 40mm (1.57in x 1.57in), and it utilizes a 0.5mm microfin internal structure.

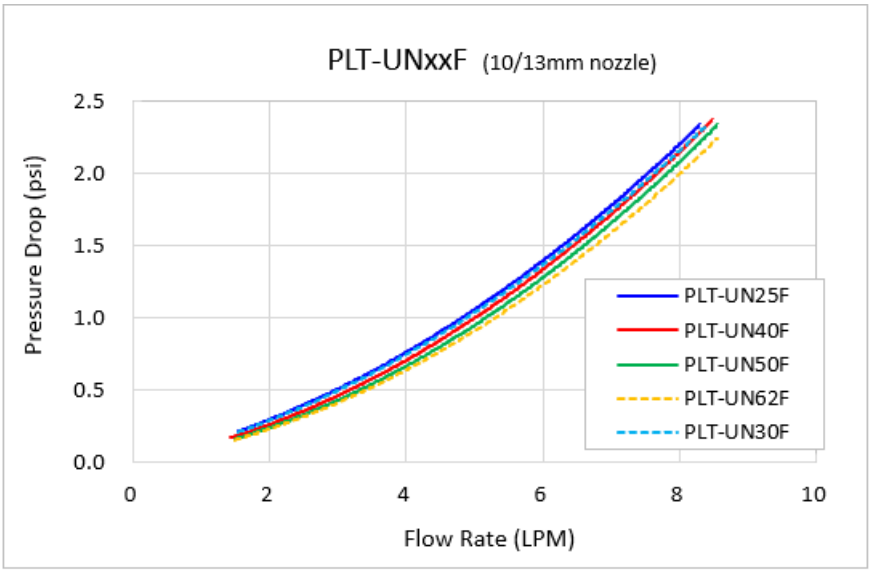
One loose steel bracket is included, designed for easy fabrication and modification (see dimensions under the "Files" tab). The included bracket accommodates diagonal mounting hole distances from approximately 60mm to 88mm (2.36in to 3.46in).

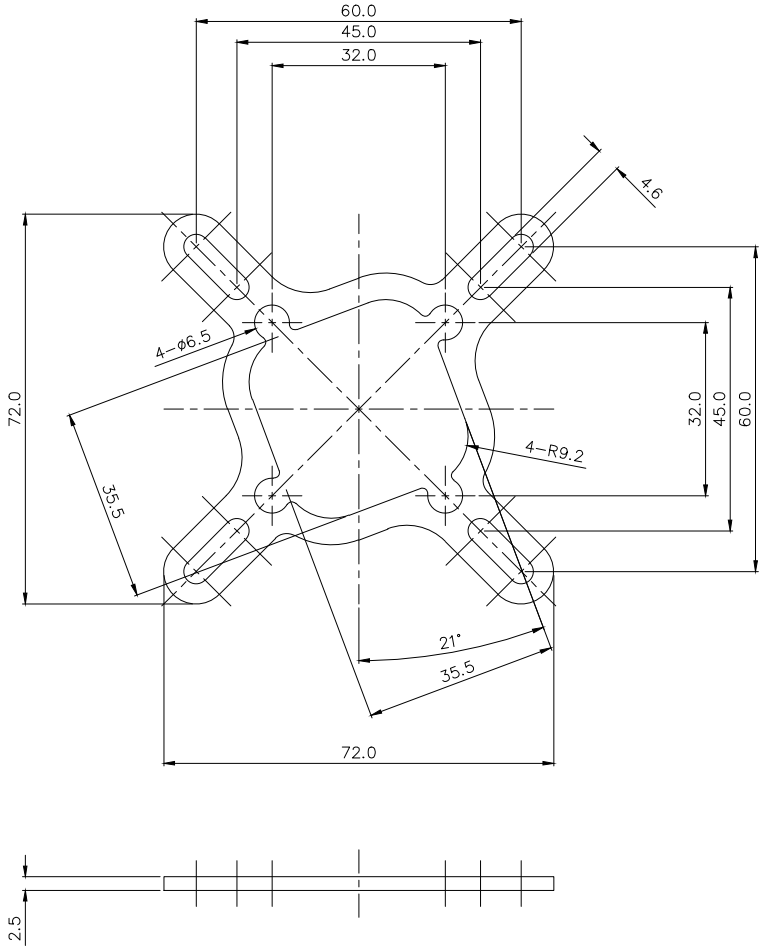
Cold plate materials include copper, a brass top, anti-corrosive nickel plating, and EPDM o-ring. Threaded for G 1/4 BSPP fittings.

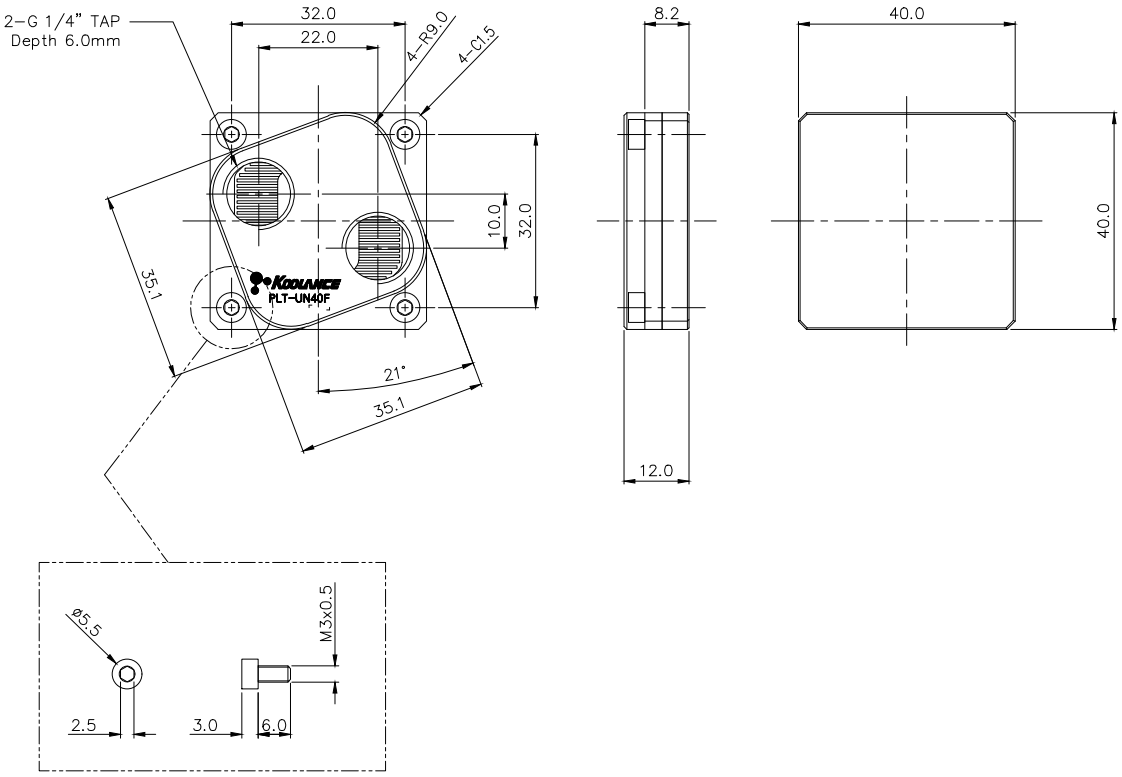
Cold Plates	
Flow Resistance @ 5LPM (10-13mm ID)	0.07 kgf/cm2 (1.0psi)
Thermal Resistance @ 5LPM (Approx.)	0.044°C/W
General	
Weight	0.34 lb (0.15 kg)
Fitting Thread	G 1/4 BSPP
Max Pressure Tolerance @ 25°C	8kgf/cm2 (113.8psi)
Max Temperature Tolerance	100°C (212°F)
Wetted Materials	Nickel-Plated Copper, Nickel-Plated Brass, EPDM




PLT-UN40F
Thermal Resistance (℃/W)
0.08
0.06
0.04
0.02
0.00
0
1
2
3
4
5
6
7
8
Flow Rate (LPM)


PLT-UNxxF (10/13mm nozzle)
Pressure Drop (psi)
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
Flow Rate (LPM)
PLT-UN25F
PLT-UN40F
PLT-UN50F
PLT-UN62F
PLT-UN30F





< Stainless Steel Socket Head Screw >

REV	DATE	CONTENTS	REVD BY	CHKD BY	APPD BY
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REVISION

NO.	DESCRIPTION		MATER'L		QUANTITY	REMARKS
KOOLANCE			UNIT	MM	ITEM PLT-UN40F	
	BY	BY	BY	APPRO BY	SCALE N/S	TITLE Ass'y
DATE					3RD ANGLE	
	S.J.LEE				CODE NO.	DWG. NO. / PAGE