

COMPRESSOR DEFINITION

Designation	VES G11C
Nominal Voltage/Frequency	230 V 32-150 Hz
Engineering Number	513907501

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-600a		
3 Nominal voltage and frequency	230 / 32-150	[V / Hz]	
4 Application type	Low-Medium Back Pressure (Fullmotion Compressors)		
4.1 Evaporating temperature range	-35°C to 0°C	(-31°F to 32°F)	
5 Motor type	BPM		
6 Starting torque	LST - Low Starting Torque		
7 Expansion device	Capillary tube		
8 Compressor cooling	Operating voltage range		
		50 Hz	60 Hz
8.1 LBP (32°C Ambient temperature)	-	-	-
8.2 LBP (43°C Ambient temperature)	-	-	-
8.3 HBP (32°C Ambient temperature)	-	-	-
8.4 HBP (43°C Ambient temperature)	-	-	-
9 Maximum condensing temperature			
9.1 Operating	6.9	[kgf/cm ²] (98 psig)	/ °C - °F
9.2 Peak	7.8	[kgf/cm ²] (111 psig)	/ °C - °F
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1/5	[hp]
2 Displacement	11.14	[cm ³] (0.680 cu.in)
2.1 Bore [mm]	26.000	
2.2 Stroke [mm]	21.000	
3 Lubricant charge	205	[ml] (6.93 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ALQUILB / ISO5	
4 Weight (with oil charge)	6.7	[kg] (14.77 lb.)
5 Nitrogen charge	-	[kgf/cm ²]

C - ELECTRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	230 V 31.7-150 Hz 3~ (Three phase)	
2 Starting device type	Inverter	
2.1 Starting device	VCC3 1156 XXXXX	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	VCC3 1156 XX	
6 Start winding resistance	9.30	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	9.30	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (32/150 Hz)	-	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (32/150 Hz)	-	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (32/150 Hz)	-	[A] - Measured according to UL 984
11 Approval boards certification	UL	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @115V950RPM			AHAM Static		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 40.5°C (104.9°F)	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
232	58	68	29	0.43		7.95	2.00	2.33

TEST CONDITIONS: @115V1300RPM			AHAM Static		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 40.5°C (104.9°F)	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
317	80	93	39	0.56		8.11	2.04	2.38

TEST CONDITIONS: @115V2000RPM			AHAM Static		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 40.5°C (104.9°F)	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
491	124	144	61	0.83		8.08	2.04	2.37

TEST CONDITIONS: @115V3000RPM			AHAM Static		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 40.5°C (104.9°F)	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
727	183	213	93	1.21		7.82	1.97	2.29

TEST CONDITIONS: @115V4000RPM			AHAM Static		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 40.5°C (104.9°F)	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
949	239	278	131	1.68		7.24	1.82	2.12

TEST CONDITIONS: @115V4500RPM			AHAM Static		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 40.5°C (104.9°F)	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
992	250	291	139	1.84		7.15	1.80	2.10

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V950RPM		ASHRAE32-NOFAN Static			(Condensing temperature 35°C (+95°F))				
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]
-35	(-31)				0.00	0.00	0.00	0.00	0.00
-30	(-22)				0.00	0.00	0.00	0.00	0.00
-25	(-13)				0.00	0.00	0.00	0.00	0.00
-20	(- 4)				0.00	0.00	0.00	0.00	0.00
-15	(+ 5)				0.00	0.00	0.00	0.00	0.00
-10	(+14)				0.00	0.00	0.00	0.00	0.00
-5	(+23)				0.00	0.00	0.00	0.00	0.00
0	(+32)				0.00	0.00	0.00	0.00	0.00

TEST CONDITIONS: @115V950RPM		ASHRAE32-NOFAN Static			(Condensing temperature 45°C (+113°F))				
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]
-35	(-31)				0.00	0.00	0.00	0.00	0.00
-30	(-22)				0.00	0.00	0.00	0.00	0.00
-25	(-13)				0.00	0.00	0.00	0.00	0.00
-20	(- 4)				0.00	0.00	0.00	0.00	0.00
-15	(+ 5)				0.00	0.00	0.00	0.00	0.00
-10	(+14)				0.00	0.00	0.00	0.00	0.00
-5	(+23)				0.00	0.00	0.00	0.00	0.00
0	(+32)				0.00	0.00	0.00	0.00	0.00

TEST CONDITIONS: @115V950RPM		ASHRAE32-NOFAN Static			(Condensing temperature 55°C (+131°F))				
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]
-35	(-31)				0.00	0.00	0.00	0.00	0.00
-30	(-22)				0.00	0.00	0.00	0.00	0.00
-25	(-13)				0.00	0.00	0.00	0.00	0.00
-20	(- 4)				0.00	0.00	0.00	0.00	0.00
-15	(+ 5)				0.00	0.00	0.00	0.00	0.00
-10	(+14)				0.00	0.00	0.00	0.00	0.00
-5	(+23)				0.00	0.00	0.00	0.00	0.00
0	(+32)				0.00	0.00	0.00	0.00	0.00

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V1300RPM		ASHRAE32-NOFAN Static			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]	[kcal/h]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35	(-31)					0.00	0.00	0.00	0.00	0.00
-30	(-22)					0.00	0.00	0.00	0.00	0.00
-25	(-13)					0.00	0.00	0.00	0.00	0.00
-20	(- 4)					0.00	0.00	0.00	0.00	0.00
-15	(+ 5)					0.00	0.00	0.00	0.00	0.00
-10	(+14)					0.00	0.00	0.00	0.00	0.00
-5	(+23)					0.00	0.00	0.00	0.00	0.00
0	(+32)					0.00	0.00	0.00	0.00	0.00

TEST CONDITIONS: @115V1300RPM		ASHRAE32-NOFAN Static			(Condensing temperature 45°C (+113°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]	[kcal/h]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35	(-31)					0.00	0.00	0.00	0.00	0.00
-30	(-22)					0.00	0.00	0.00	0.00	0.00
-25	(-13)					0.00	0.00	0.00	0.00	0.00
-20	(- 4)					0.00	0.00	0.00	0.00	0.00
-15	(+ 5)					0.00	0.00	0.00	0.00	0.00
-10	(+14)					0.00	0.00	0.00	0.00	0.00
-5	(+23)					0.00	0.00	0.00	0.00	0.00
0	(+32)					0.00	0.00	0.00	0.00	0.00

TEST CONDITIONS: @115V1300RPM		ASHRAE32-NOFAN Static			(Condensing temperature 55°C (+131°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]	[kcal/h]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35	(-31)					0.00	0.00	0.00	0.00	0.00
-30	(-22)					0.00	0.00	0.00	0.00	0.00
-25	(-13)					0.00	0.00	0.00	0.00	0.00
-20	(- 4)					0.00	0.00	0.00	0.00	0.00
-15	(+ 5)					0.00	0.00	0.00	0.00	0.00
-10	(+14)					0.00	0.00	0.00	0.00	0.00
-5	(+23)					0.00	0.00	0.00	0.00	0.00
0	(+32)					0.00	0.00	0.00	0.00	0.00

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V1600RPM		ASHRAE32-NOFAN Static			(Condensing temperature 35°C (+95°F))				
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
	°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]
-35 (-31)					0.00	0.00	0.00	0.00	0.00
-30 (-22)					0.00	0.00	0.00	0.00	0.00
-25 (-13)					0.00	0.00	0.00	0.00	0.00
-20 (- 4)					0.00	0.00	0.00	0.00	0.00
-15 (+ 5)					0.00	0.00	0.00	0.00	0.00
-10 (+14)					0.00	0.00	0.00	0.00	0.00
-5 (+23)					0.00	0.00	0.00	0.00	0.00
0 (+32)					0.00	0.00	0.00	0.00	0.00

TEST CONDITIONS: @115V1600RPM		ASHRAE32-NOFAN Static			(Condensing temperature 45°C (+113°F))				
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
	°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]
-35 (-31)					0.00	0.00	0.00	0.00	0.00
-30 (-22)					0.00	0.00	0.00	0.00	0.00
-25 (-13)					0.00	0.00	0.00	0.00	0.00
-20 (- 4)					0.00	0.00	0.00	0.00	0.00
-15 (+ 5)					0.00	0.00	0.00	0.00	0.00
-10 (+14)					0.00	0.00	0.00	0.00	0.00
-5 (+23)					0.00	0.00	0.00	0.00	0.00
0 (+32)					0.00	0.00	0.00	0.00	0.00

TEST CONDITIONS: @115V1600RPM		ASHRAE32-NOFAN Static			(Condensing temperature 55°C (+131°F))				
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
	°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]
-35 (-31)					0.00	0.00	0.00	0.00	0.00
-30 (-22)					0.00	0.00	0.00	0.00	0.00
-25 (-13)					0.00	0.00	0.00	0.00	0.00
-20 (- 4)					0.00	0.00	0.00	0.00	0.00
-15 (+ 5)					0.00	0.00	0.00	0.00	0.00
-10 (+14)					0.00	0.00	0.00	0.00	0.00
-5 (+23)					0.00	0.00	0.00	0.00	0.00
0 (+32)					0.00	0.00	0.00	0.00	0.00

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V2000RPM		ASHRAE32-NOFAN Static			(Condensing temperature 35°C (+95°F))				
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]
-35	(-31)				0.00	0.00	0.00	0.00	0.00
-30	(-22)				0.00	0.00	0.00	0.00	0.00
-25	(-13)				0.00	0.00	0.00	0.00	0.00
-20	(- 4)				0.00	0.00	0.00	0.00	0.00
-15	(+ 5)				0.00	0.00	0.00	0.00	0.00
-10	(+14)				0.00	0.00	0.00	0.00	0.00
-5	(+23)				0.00	0.00	0.00	0.00	0.00
0	(+32)				0.00	0.00	0.00	0.00	0.00

TEST CONDITIONS: @115V2000RPM		ASHRAE32-NOFAN Static			(Condensing temperature 45°C (+113°F))				
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]
-35	(-31)				0.00	0.00	0.00	0.00	0.00
-30	(-22)				0.00	0.00	0.00	0.00	0.00
-25	(-13)				0.00	0.00	0.00	0.00	0.00
-20	(- 4)				0.00	0.00	0.00	0.00	0.00
-15	(+ 5)				0.00	0.00	0.00	0.00	0.00
-10	(+14)				0.00	0.00	0.00	0.00	0.00
-5	(+23)				0.00	0.00	0.00	0.00	0.00
0	(+32)				0.00	0.00	0.00	0.00	0.00

TEST CONDITIONS: @115V2000RPM		ASHRAE32-NOFAN Static			(Condensing temperature 55°C (+131°F))				
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]
-35	(-31)				0.00	0.00	0.00	0.00	0.00
-30	(-22)				0.00	0.00	0.00	0.00	0.00
-25	(-13)				0.00	0.00	0.00	0.00	0.00
-20	(- 4)				0.00	0.00	0.00	0.00	0.00
-15	(+ 5)				0.00	0.00	0.00	0.00	0.00
-10	(+14)				0.00	0.00	0.00	0.00	0.00
-5	(+23)				0.00	0.00	0.00	0.00	0.00
0	(+32)				0.00	0.00	0.00	0.00	0.00

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V3000RPM		ASHRAE32-NOFAN Static			(Condensing temperature 35°C (+95°F))				
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]
-35	(-31)				0.00	0.00	0.00	0.00	0.00
-30	(-22)				0.00	0.00	0.00	0.00	0.00
-25	(-13)				0.00	0.00	0.00	0.00	0.00
-20	(- 4)				0.00	0.00	0.00	0.00	0.00
-15	(+ 5)				0.00	0.00	0.00	0.00	0.00
-10	(+14)				0.00	0.00	0.00	0.00	0.00
-5	(+23)				0.00	0.00	0.00	0.00	0.00
0	(+32)				0.00	0.00	0.00	0.00	0.00

TEST CONDITIONS: @115V3000RPM		ASHRAE32-NOFAN Static			(Condensing temperature 45°C (+113°F))				
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]
-35	(-31)				0.00	0.00	0.00	0.00	0.00
-30	(-22)				0.00	0.00	0.00	0.00	0.00
-25	(-13)				0.00	0.00	0.00	0.00	0.00
-20	(- 4)				0.00	0.00	0.00	0.00	0.00
-15	(+ 5)				0.00	0.00	0.00	0.00	0.00
-10	(+14)				0.00	0.00	0.00	0.00	0.00
-5	(+23)				0.00	0.00	0.00	0.00	0.00
0	(+32)				0.00	0.00	0.00	0.00	0.00

TEST CONDITIONS: @115V3000RPM		ASHRAE32-NOFAN Static			(Condensing temperature 55°C (+131°F))				
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]
-35	(-31)				0.00	0.00	0.00	0.00	0.00
-30	(-22)				0.00	0.00	0.00	0.00	0.00
-25	(-13)				0.00	0.00	0.00	0.00	0.00
-20	(- 4)				0.00	0.00	0.00	0.00	0.00
-15	(+ 5)				0.00	0.00	0.00	0.00	0.00
-10	(+14)				0.00	0.00	0.00	0.00	0.00
-5	(+23)				0.00	0.00	0.00	0.00	0.00
0	(+32)				0.00	0.00	0.00	0.00	0.00

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V4500RPM		ASHRAE32-NOFAN Static			(Condensing temperature 35°C (+95°F))				
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]
-35	(-31)				0.00	0.00	0.00	0.00	0.00
-30	(-22)				0.00	0.00	0.00	0.00	0.00
-25	(-13)				0.00	0.00	0.00	0.00	0.00
-20	(- 4)				0.00	0.00	0.00	0.00	0.00
-15	(+ 5)				0.00	0.00	0.00	0.00	0.00
-10	(+14)				0.00	0.00	0.00	0.00	0.00
-5	(+23)				0.00	0.00	0.00	0.00	0.00
0	(+32)				0.00	0.00	0.00	0.00	0.00

TEST CONDITIONS: @115V4500RPM		ASHRAE32-NOFAN Static			(Condensing temperature 45°C (+113°F))				
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]
-35	(-31)				0.00	0.00	0.00	0.00	0.00
-30	(-22)				0.00	0.00	0.00	0.00	0.00
-25	(-13)				0.00	0.00	0.00	0.00	0.00
-20	(- 4)				0.00	0.00	0.00	0.00	0.00
-15	(+ 5)				0.00	0.00	0.00	0.00	0.00
-10	(+14)				0.00	0.00	0.00	0.00	0.00
-5	(+23)				0.00	0.00	0.00	0.00	0.00
0	(+32)				0.00	0.00	0.00	0.00	0.00

TEST CONDITIONS: @115V4500RPM		ASHRAE32-NOFAN Static			(Condensing temperature 55°C (+131°F))				
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]
-35	(-31)				0.00	0.00	0.00	0.00	0.00
-30	(-22)				0.00	0.00	0.00	0.00	0.00
-25	(-13)				0.00	0.00	0.00	0.00	0.00
-20	(- 4)				0.00	0.00	0.00	0.00	0.00
-15	(+ 5)				0.00	0.00	0.00	0.00	0.00
-10	(+14)				0.00	0.00	0.00	0.00	0.00
-5	(+23)				0.00	0.00	0.00	0.00	0.00
0	(+32)				0.00	0.00	0.00	0.00	0.00

F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal VES		
2 Tray holder	Yes		
3 Connectors			
3.1 SUCTION	6.2 +0.05/+0.05	[mm]	(0.244" +0.002"/+0.002")
3.1.1 Material	Copper		
3.1.2 Shape	Slanted 63° up + 49° to Back		
3.2 DISCHARGE	4.9 +0.10/-0.05	[mm]	(0.193" +0.004"/-0.002")
3.2.1 Material	Copper		
3.2.2 Shape	Slanted 10° up + 24° to Back		
3.3 PROCESS	6.2 +0.05/+0.05	[mm]	(0.244" +0.002"/+0.002")
3.3.1 Material	Copper		
3.3.2 Shape	Slanted 47° up + 59° to Back		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		