

BSS-04

Cryogenic Cooler

Data Sheet v.1.0

I. Product Features

- Compact structure, small size, and lightweight
- Low mechanical vibration and noise
- High reliability, MTTF $\geq$ 20,000h
- Temperature stability $\leq \pm 0.2K$



II. Technical parameters

Table 1

PARAMETER	VALUE
Cooling capacity	$\geq 700mW@23^{\circ}C$
Input voltage	12V _{DC}
Cool down time	2 min@77K@23°C@150J
MTTF	$\geq 20\ 000\ h$
Steady state input power	5WDC@150mW@110K@23°C
Maximum input power	20WDC
Acoustic noise	$\leq 45\ dB$
Operating / Storage / Ambient temperature	-40°C ~ 70°C / -55°C ~ 85°C
Temperature stability	$\pm 0.2K$
Temperature shock	-55°C ~ +85°C
Cold tip temperature range	110K-150K
Weight	$\leq 220g$ (excluding Dewar)

III. Product curves

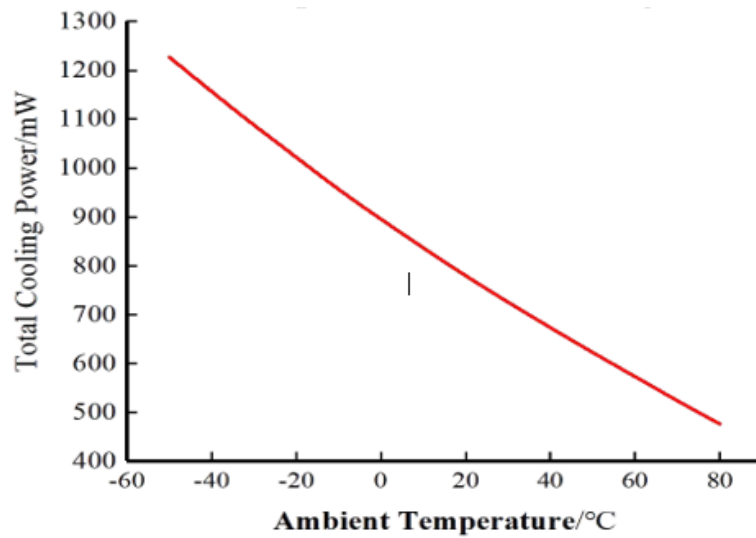


Figure 1. Cooling Power vs. Ambient Temperature

IV. Outline Dimensions

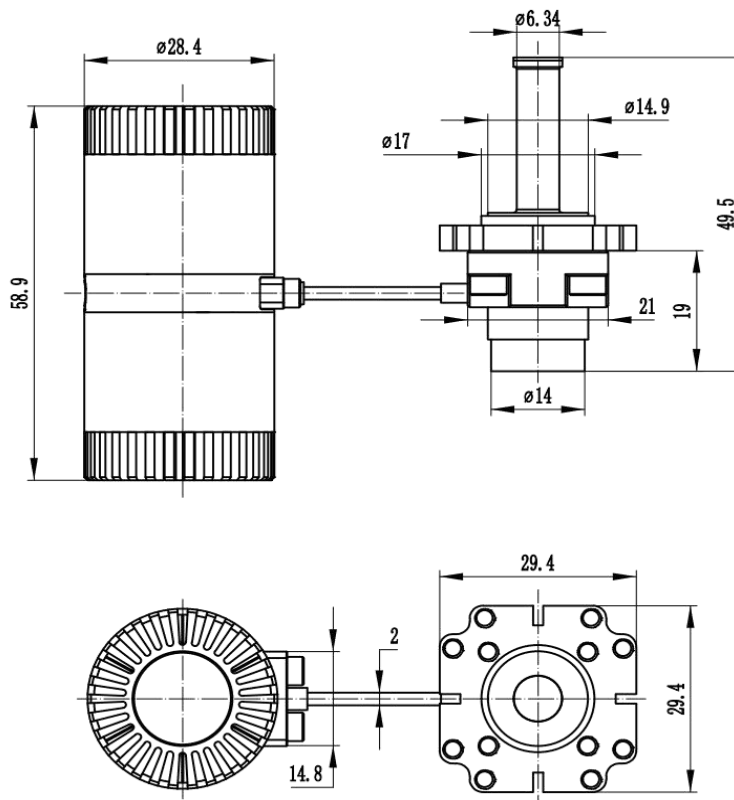


Figure 3. BSS-04 outline dimensions