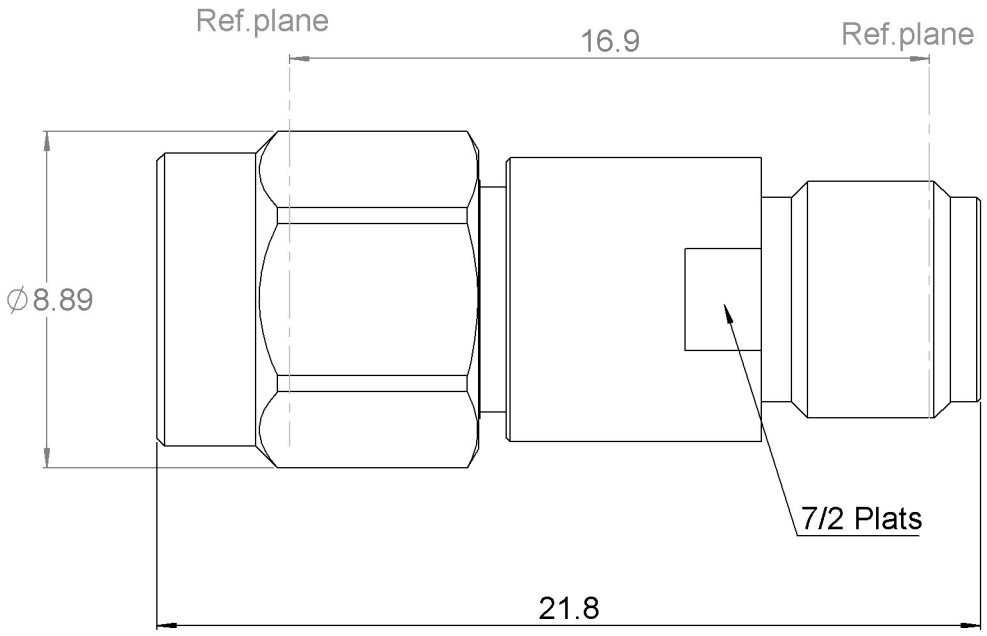
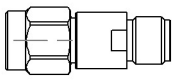
# Technical Data Sheet

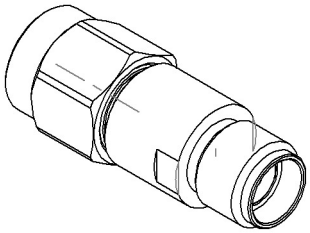
SMA ATTENUATOR 6 DB 18 GHZ 2W Cryo

| PAGE 1/2 | ISSUE 19-09-25A | SERIES ATTENUATOR | PART NUMBER **R429806102** |
|---|---|---|---|



SCALE : 1:1



All dimensions are in mm. Tolerances according ISO 2768 c-K

| COMPONENTS | MATERIALS | PLATING (µm) |
|---|---|---|
| Body | **STAINLESS STEEL** | **PASSIVATED.** |
| Male center contact | **BERYLLIUM COPPER** | **GOLD 2.5 OVER NICKEL 1** |
| Female center contact | **BERYLLIUM COPPER** | **GOLD 2.5 OVER NICKEL 1** |
| Outer contact | | |
| Insulator | **PTFE** | |
| Gasket | **SILICONE RUBBER** | |
| Substrate | **ALUMINIUM NITRIDE** | |
| Resistor | **THIN FILM** | |
| Others parts | | |

| PAGE **2/2** | ISSUE **19-09-25A** | SERIES **ATTENUATOR** | PART NUMBER **R429806102** |
|---|---|---|---|

## ELECTRICAL CHARACTERISTICS

| Frequency (GHz) | **DC-6** | **6-12** | **12-18** |
|---|---|---|---|
| V.S.W.R (≤) | **1.2** | **1.35** | **1.4** |
| Deviation(±dB) | **0.6** | **0.6** | **0.6** |

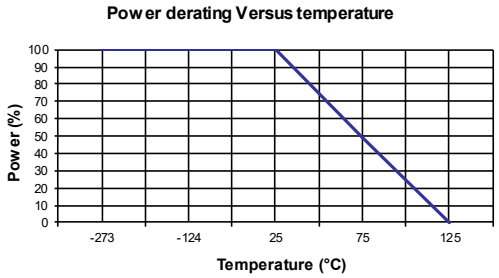
| Operating Frequency Range | **DC-50** | GHz |
|---|---|---|
| Impedance | **50** | Ω |
| Nominal Attenuation | **6** | dB |
| Peak power at 25°C (1µs, 1‰) | **100** | W |
| Average power at 25°C | **2** | W (Free Air Cooled) |
| | | W (Conduction Cooled) |

## MECHANICAL CHARACTERISTICS

| Connectors | **SMA** | **Male Female** | **MIL C39012** |
|---|---|---|---|
| Weight (±15%) | **5,1019** g | | |

## ENVIRONMENTAL CHARACTERISTICS

| Operating temperature range | **0.01/400** K |
|---|---|
| Storage temperature range | **-55/125** °C |




## SPECIFICATION

## OTHER CHARACTERISTICS

**For Cryogenic applications**