

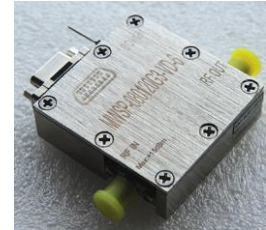
数控移相器

MWSP-120180G3-VD-6

50 Ω 相位 360° 12GHz to 18GHz

Features

- wideband, 12 ~ 18 GHz
- Low Insertion Loss: 6 dB
- Control 6 Bit
- 360° Coverage,



Typical Applications

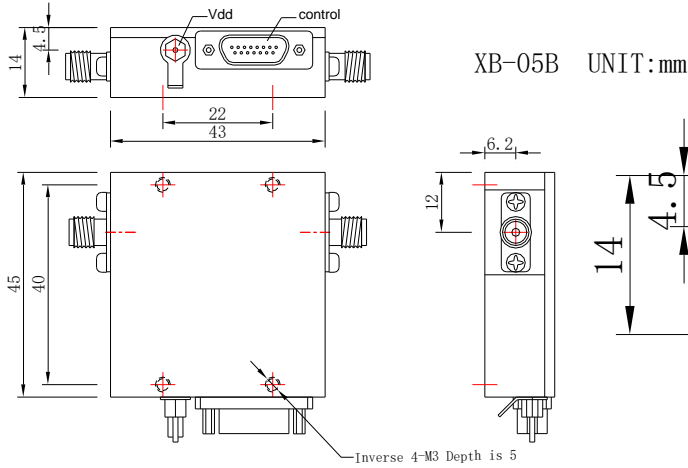
- EW Receivers
- Military Radar
- Healthcare
- Satellite Communications
- Beam Forming Modules

Electrical Specifications

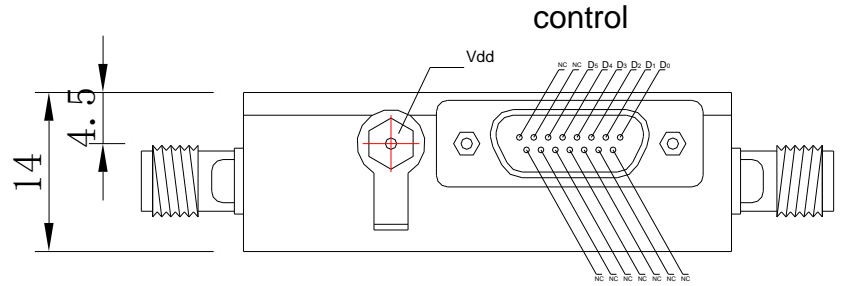
TA=+25°C Vdd=+12V Vc=0/+5V 50 Ohm System

Parameter	State	Min.	Typ.	Max.	Units
Frequency Range		12	-	18	GHz
Insertion Loss*	at all wideband frequency	-	6.0	10.0	dB
Input Return Loss*	at all wideband frequency	-	2.5	3.5	dB
Output Return Loss*	at all wideband frequency	-	2.5	3.5	dB
Phase Error*	At all wideband frequency	-	+/- 5.0	+20/-10.0	deg
RMS Phase Error		-		10.0	deg
Input Power for 1 dB Compression			10		dBm
Control Voltage		0	-	5	V
Bias Voltage Current	12 V	-	-	20	mA

Outline Drawing



Control Drawing



Absolute Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Bias Voltage Range (Vdd)	15V
Control Voltage Range (Vc)	5.0 V
Input Power (RFI N)	10 dBm

Control Voltage

State	Voltage
Low(0)	0 to +0.5V
High(1)	+3 to +5V(Note 5)

Note 5: Built-in pull-up resistors (about 500 k Ω)

Permanent damage may occur if any of these limits are exceeded.

Truth Table

Control Voltage Input						Phase Shift (Degrees)
D5	D4	D3	D2	D1	D0	RFIN - RFout
1	1	1	1	1	1	Reference*
1	1	1	1	1	0	5.625
1	1	1	1	0	1	11.25
1	1	1	0	1	1	22.5
1	1	0	1	1	1	45.0
1	0	1	1	1	1	90.0
0	1	1	1	1	1	180.0
0	0	0	0	0	0	354.375

