

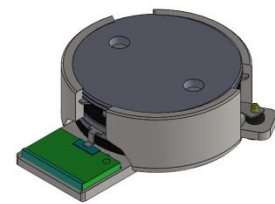


## DP3731S

### ENG PART:DP-21.4IM-1930T2200-CW

1930MHz to 2200MHz Single-Junction Surface Mount Isolator

REV.	DESCRIPTION	REVISOR	DATE	APPROVED
A	SAME AS REV.1	ZZ.Zhu	2025/2/26	Nick

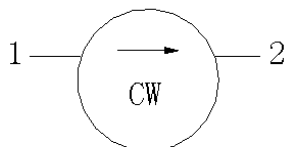


#### Applications:

- Wireless Infrastructure
- Power Amplifier

#### Features:

- Operating frequency range: 1930MHz to 2200MHz
- Operating temperature range: -40°C to +125°C
- Storage temperature range: -40°C to +125°C
- Small surface-mount package delivered on T&R
- BeO free & RoHS compliant



Block Diagram



**Electrical Specifications:**

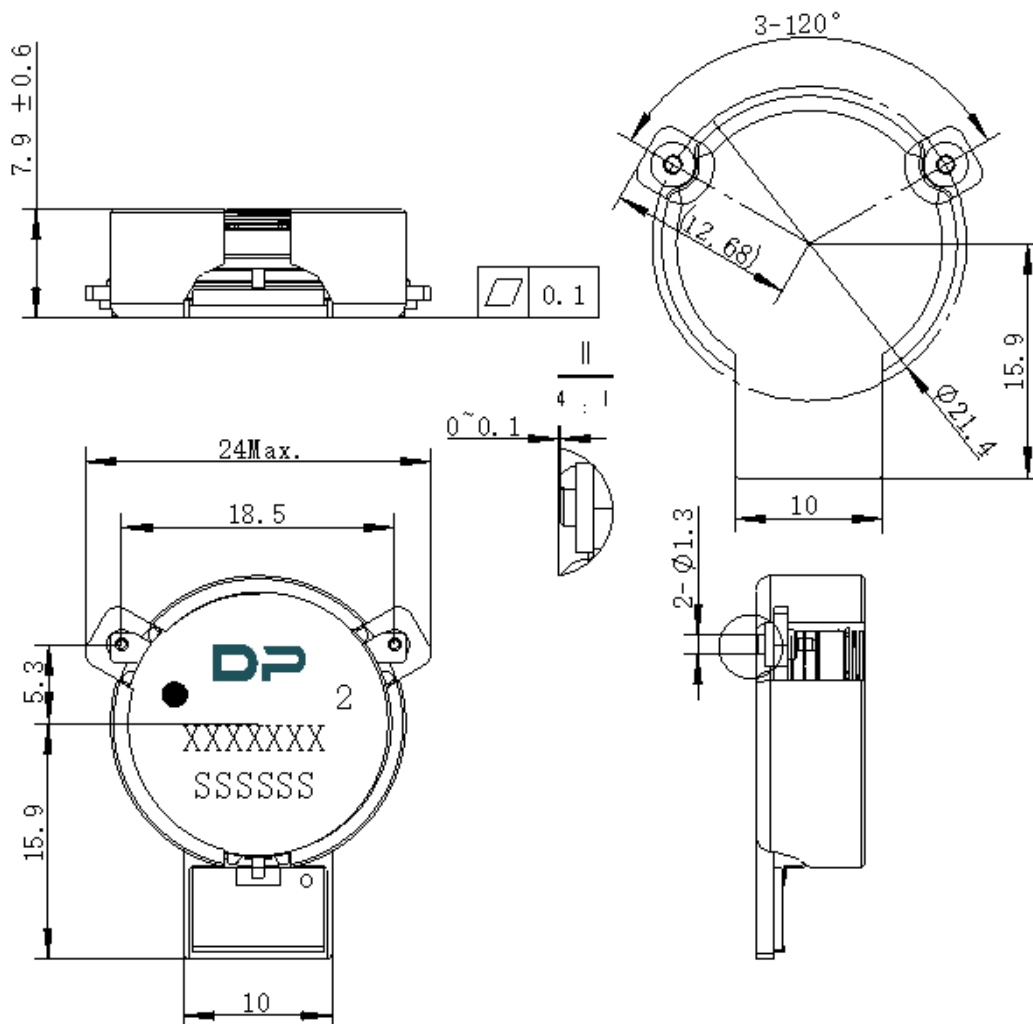
ITEM	SPECIFICATION	
Frequency	1930~1995 & 2110-2200	MHz
Direction	CW	
Impedance	Typ: 50	$\Omega$
Insertion Loss (Max.)	0.2@-40~+115°C 0.22@+115~+125°C	dB
Isolation (Min.)	22	dB
Return Loss (Min.)	20@-40~0°C 23@0~+125°C	dB
3rd IMD (Max.)	-69@2x50W CW tones	dBc
5th IMD (Max.)	-79@2x50W CW tones,	dBc
Harmonics	0@2x f 100W CW -10@3x f 100W CW -10@4x f 100W CW -35@5x f 100W CW -25@6x f 100W CW -25@7x f 100W CW	dBm
Out of band attenuation	10@2x f 5@3x f 5@nx f (n=order of in- band frequency multiple)	dB
Group delay	2.8	ns
Impedance control (the reference point at Isolator Pad)	/	$\Omega$
Deviation from nominal delay	$\pm 0.05$	ns
Power FWD/REV/PEAK	80/80/1500	W
Max voltage rating	1080	V
No Resonance point	/	
Termination/Attenuator	150/-	W/dB

Notes:

1. Exposure to maximum rating conditions for extended periods may reduce device reliability. There is no damage to device with only one parameter set at the limit and all other parameters set at or below their nominal value. Exceeding any of the limits listed here may result in permanent damage to the device.
2. Performance is guaranteed under the conditions listed in this table and over the operating temperature range.



Mechanical Specifications:



Unit: Millimeters

Notes:

1. The housing and pins are silver-plated.
2. Tolerance  $\pm 0.2$  mm unless otherwise specified.
3. Co-planarity Specification: 0.1 mm maximum.
4. Part Number, Lot Code, and Port Designation are printed on the top side of device.
5. The **XXXXXXX** on the label represents the part number
6. The **SSSSSS** on the label represents the serial number
7. The black dot on the label represents the input port



Packaging Style:

ITEM	W	A0	B0	K0	D	E	F	F2	P	P0	P2	T
DM	44	Φ20.2	26.3	8.0	Φ1.5	1.75	20.2	40.5	32	4	2	0.5
TOLE	±0.3	±0.2	±0.2	+0.2	+0.1	±0.1	±0.15	±0.1	±0.1	±0.1	±0.1	±0.05

