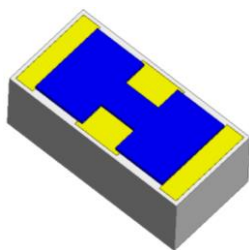


High Frequency Chip Attenuators



■ATS Series

Features

- 1005 EIA standard case size
- Attenuation values 0-10dB
- DC-50GHz performance
- Ni-alloy thin-film resistive elements
- Facedown type

Application

- Cell phone base stations, Wireless communication modules etc.

◆Part numbering system

Series code		ATS	1005	-	1dB	-	FD	-	T1	Packaging quantity: T05(500pcs) T1(1,000pcs)
Size "1005"=1.0 × 0.5mm									Facedown type	
									Attenuation: 0-10dB	

◆Electrical Specification

Attenuation	Type(circuit diagram)	Frequency Range	Attenuation Tolerance	VSWR Tolerance	Nominal Impedance	Power Rating	Packaging Quantity
0dB	THRU(Fig.3)	DC~30GHz	-0.75dB	≤ 1.4	50 Ω	32mW	Reel T05 = 500pcs T1 = 1,000pcs
		30GHz~50GHz	-1.25dB	≤ 1.6			
1dB	Pi(Fig.4)	DC~30GHz	± 0.75 dB	≤ 1.5			
		30GHz~50GHz	± 1.25 dB	≤ 1.7			
2dB-10dB	Pi(Fig.4)	DC~30GHz	± 0.75 dB	≤ 1.4			
		30GHz~50GHz	± 1.25 dB	≤ 1.6			

◆Dimensions (mm)

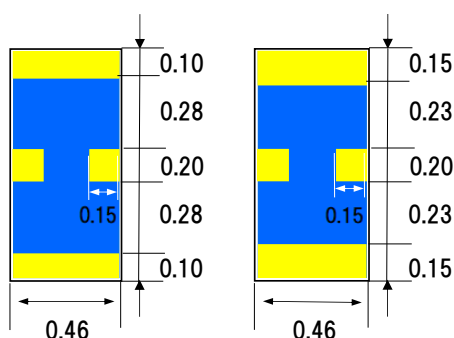
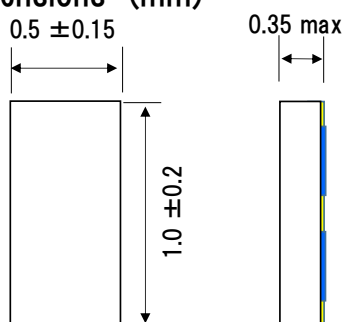


Fig.1 1dB

Fig.2 0dB, 2dB~10dB

◆Circuit Diagram

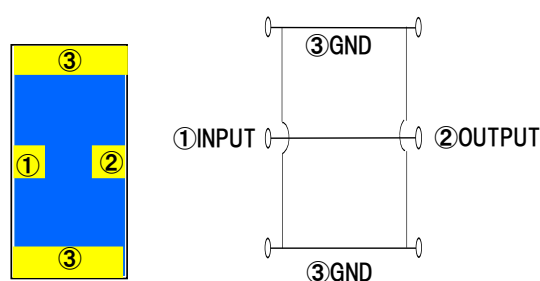


Fig.3 THRU

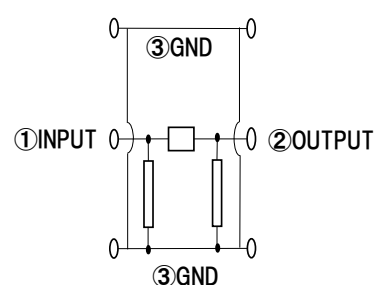
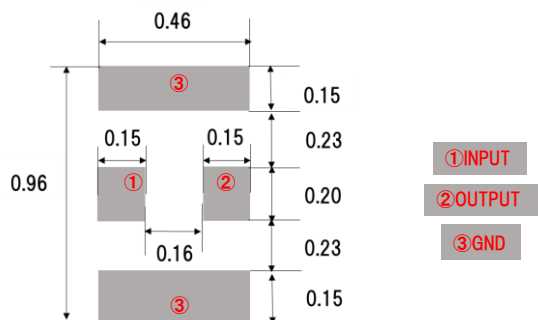


Fig.4 Pi

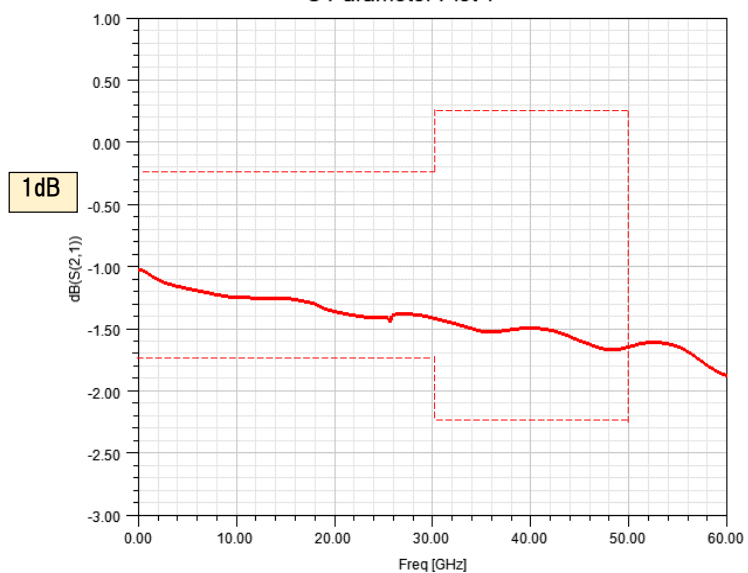


◆Recommended Land Patterns (mm)

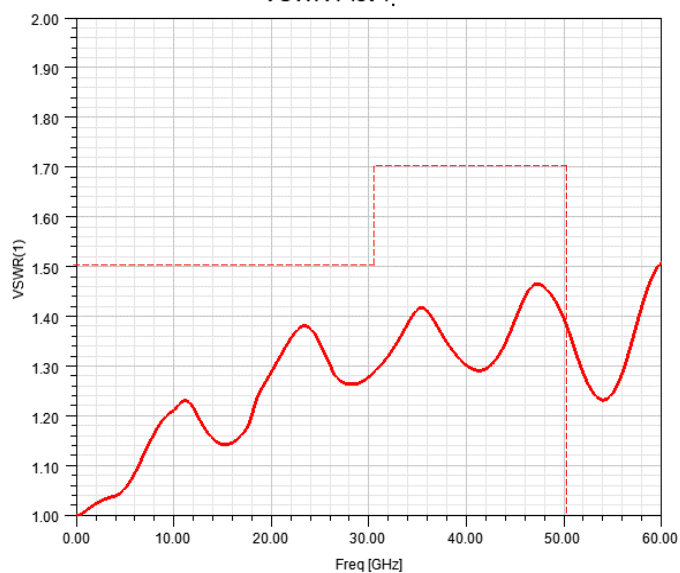


◆Simulation results

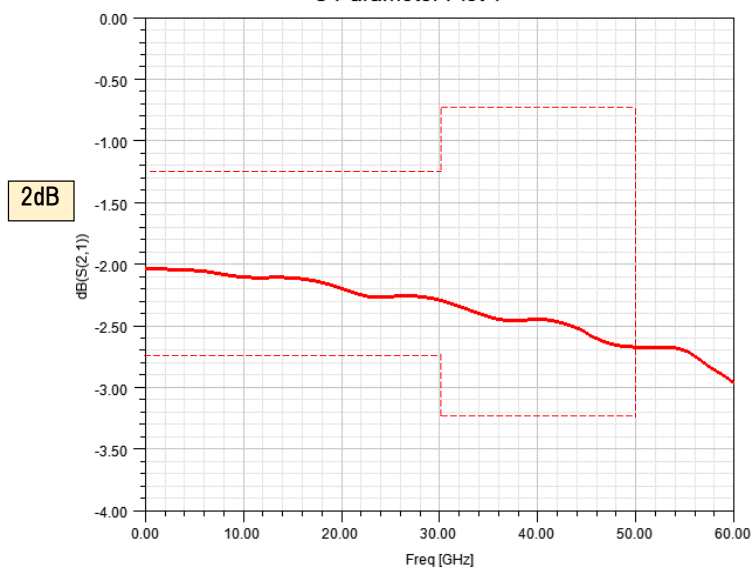
S Parameter Plot 1



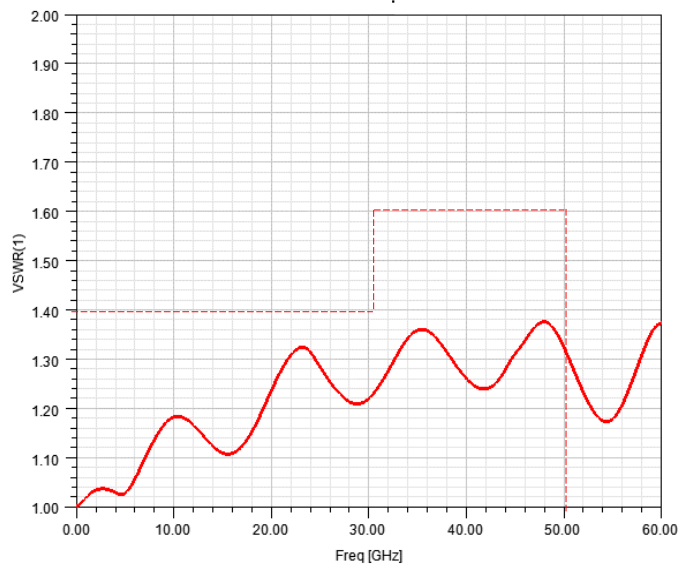
VSWR Plot 1.



S Parameter Plot 1



VSWR Plot 1.



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Susumu:

[ATS1005-0DB-FD-T05](#) [ATS1005-0DB-FD-T1](#) [ATS1005-10DB-FD-T05](#) [ATS1005-10DB-FD-T1](#) [ATS1005-1DB-FD-T05](#) [ATS1005-1DB-FD-T1](#) [ATS1005-2DB-FD-T05](#) [ATS1005-2DB-FD-T1](#) [ATS1005-3DB-FD-T05](#) [ATS1005-3DB-FD-T1](#) [ATS1005-4DB-FD-T05](#) [ATS1005-4DB-FD-T1](#) [ATS1005-5DB-FD-T05](#) [ATS1005-5DB-FD-T1](#) [ATS1005-6DB-FD-T05](#) [ATS1005-6DB-FD-T1](#) [ATS1005-7DB-FD-T05](#) [ATS1005-7DB-FD-T1](#) [ATS1005-8DB-FD-T05](#) [ATS1005-8DB-FD-T1](#) [ATS1005-9DB-FD-T05](#) [ATS1005-9DB-FD-T1](#)