

DIGITAL TAPS 1.2GHZ

The bdn Taps are designed to comply with the highest current standards of the SCTE (Society of Cable Telecommunications Engineers). They support bidirectional digital data and multimedia communications over Docsis 3.1 QPSK and QAM protocol, in addition to integrating 6kv surge protection.

TECH SPECIFICATION

Description									
Tap Value	11	14	17	18	20	23	24	27	30
Item	GM	GM	GM	GM	GM	GM	GM	GM	GM
Insertion Loss (IN-OUT)									
5-40MHz		≤3.8	≤3.0	≤2.5	≤1.8	≤1.5	≤1.2	≤1.2	≤1.2
41-470MHz		≤4.0	≤3.5	≤2.8	≤2.0	≤1.8	≤1.5	≤1.5	≤1.5
471-550MHz		≤4.2	≤3.5	≤2.8	≤2.0	≤1.8	≤1.5	≤1.5	≤1.5
551-750MHz		≤4.4.3	≤3.8	≤3.0	≤2.2	≤2.0	≤1.8	≤1.8	≤1.8
751-860MHz		≤4.3	≤3.8	≤3.0	≤2.2	≤2.0	≤1.8	≤1.8	≤1.8
861-950MHz		≤4.5	≤4.0	≤3.2	≤2.5	≤2.2	≤2.0	≤2.0	≤2.0
950-1218MHz		≤4.5	≤4.1	≤3.3	≤2.6	≤2.2	≤2.0	≤2.0	≤2.0
Tap Loss (IN-TAP)		±1.5							
5-1218MHz	11	14	17	18	20	23	24	27	30
Isolation (TAP-TAP)									
5-40MHz	≥25	≥25	≥25	≥25	≥25	≥25	≥25	≥25	≥25
41-470MHz	≥25	≥25	≥25	≥25	≥25	≥25	≥25	≥25	≥25
471-550MHz	≥23	≥25	≥25	≥25	≥25	≥25	≥25	≥25	≥25
551-750MHz	≥22	≥25	≥25	≥25	≥25	≥25	≥25	≥25	≥25
751-860MHz	≥22	≥25	≥25	≥25	≥25	≥25	≥25	≥25	≥25
861-950MHz	≥22	≥25	≥25	≥25	≥25	≥25	≥25	≥25	≥25
950-1218MHz	≥22	≥25	≥25	≥25	≥25	≥25	≥25	≥25	≥25

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Isolatio (TAP-OUT)															
5-40MHz	≥26	≥28	≥30	≥32	≥34	≥38	≥38	≥40	≥42						
41-470MHz	≥28	≥30	≥30	≥30	≥30	≥38	≥40	≥42	≥42						
471-550MHz	≥26	≥28	≥30	≥30	≥30	≥36	≥38	≥42	≥40						
551-750MHz	≥25	≥24	≥26	≥26	≥26	≥32	≥34	≥38	≥40						
751-860MHz	≥25	≥24	≥26	≥26	≥26	≥32	≥34	≥38	≥38						
861-950MHz	≥25	≥24	≥24	≥25	≥25	≥30	≥32	≥36	≥38						
950-1218MHz	≥25	≥24	≥24	≥25	≥25	≥30	≥32	≥36	≥38						
ReturnLoss (IN,OUT,TAP)															
5-40MHz	18	18	18	18	18	18	18	18	18						
41-470MHz	18	18	18	18	18	18	18	18	18						
471-550MHz	18	18	18	18	18	18	18	18	18						
551-750MHz	18	18	18	18	18	18	18	18	18						
751-860MHz	18	18	18	18	18	18	18	18	18						
861-950MHz	18	18	18	18	18	18	18	18	18						
950-1218MHz	18	18	18	18	18	18	18	18	18						
Impedance	75 Ohms			Test Enviroment Temperature		+25°C									
RFI Shielding	-110 dB														
Intermodulation	-100 dB														