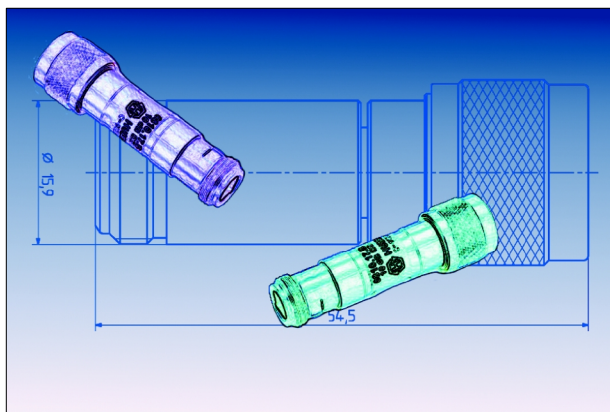


Attenuators



Content

Attenuators 50 Ω

Attenuators up to 18 GHz

3 dB	2
6 dB	4
10 dB	6
20 dB	8
30 dB	10

HUBER+SUHNER attenuators are suitable for laboratory and system applications. They are available with attenuation values of 3 dB, 6 dB, 10 dB, 20 dB and 30 dB and are specified as a function of the specific connector type up to 18 GHz. They combine a flat and precise attenuation profile with a low VSWR.

All coaxial interfaces comply with IEC 60169 and MIL-STD-348.

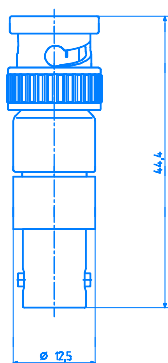
SUHNER TEST+MEASUREMENT ATTENUATORS

3 dB/50 Ω

up to 4 GHz

210

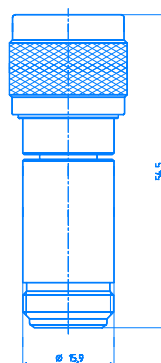
Type **6803.01.A**



Item	22550177
Interface	BNC(m)-BNC(f)
Attenuation	3 dB
Accuracy	
≤2 GHz	± 0.3 dB
≤4 GHz	± 0.5 dB
Max. freq.	4 GHz
VSWR	
≤2 GHz	≤ 1.10
≤4 GHz	≤ 1.20
Power	2 W ⁷⁾
Weight	25 g

212

Type **6803.17.A**

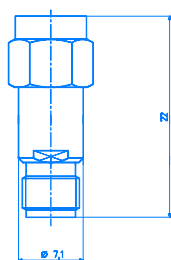


Item	22550182
Interface	N(m) - N(f)
Attenuation	3 dB
Accuracy	
≤8 GHz	± 0.3 dB
≤12.4 GHz	± 0.5 dB
Max. freq.	12.4 GHz
VSWR	
≤4 GHz	≤ 1.10
≤10 GHz	≤ 1.20
≤12.4 GHz	≤ 1.25
Power	2 W ⁷⁾
Weight	69 g

up to 12.4 GHz

211

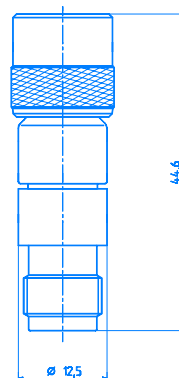
Type **6603.19.AB**



Item	22643201
Interface	SMA(m)-SMA(f)
Attenuation	3 dB
Accuracy	± 0.3 dB
Max. freq.	12.4 GHz
VSWR	≤ (1.07 + 0.015·f (GHz))
Power	2 W ⁷⁾
Weight	4 g

213

Type **6803.26.A**



Item	22543746
Interface	TNC(m) - TNC(f)
Attenuation	3 dB
Accuracy	
≤4 GHz	± 0.3 dB
≤8 GHz	± 0.8 dB
≤12.4 GHz	± 1.0 dB
Max. freq.	12.4 GHz
VSWR	
≤4 GHz	≤1.10z
≤8 GHz	≤1.20
≤11 GHz	≤1.30
≤12.4 GHz	≤1.40
Power	2 W ⁷⁾
Weight	30 g

⁷⁾ At maximum 30°C ambient temperature, derated linearly to 0 W at 130°C ambient temperature

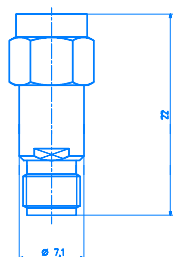
SUHNER TEST+MEASUREMENT ATTENUATORS

3 dB/50 Ω

up to 18 GHz

214

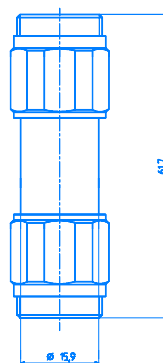
Type **6603.19.AA**



Item	22643200
Interface	SMA(m)-SMA(f)
Attenuation	3 dB
Accuracy	± 0.3 dB
Max. freq.	18 GHz
VSWR	$\leq (1.07 + 0.015 \cdot f \text{ (GHz)})$
Power	2 W ⁷⁾
Weight	4 g

216

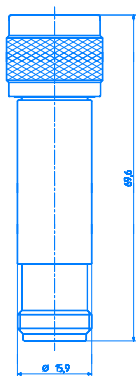
Type **6803.28.A**



Item	22550198
Interface	PC7
Attenuation	3 dB
Accuracy	
≤ 8 GHz	± 0.3 dB
≤ 12.4 GHz	± 0.5 dB
≤ 18 GHz	± 0.8 dB
Max. freq.	18 GHz
VSWR	
≤ 6 GHz	≤ 1.05
≤ 12.4 GHz	≤ 1.10
≤ 18 GHz	≤ 1.20
Power	2 W ⁷⁾
Weight	89 g

215

Type **6803.17.B**



Item	22550188
Interface	N(m)-N(f)
Attenuation	3 dB
Accuracy	
≤ 8 GHz	± 0.3 dB
≤ 12.4 GHz	± 0.5 dB
≤ 18 GHz	± 0.8 dB
Max. freq.	18 GHz
VSWR	
≤ 6 GHz	≤ 1.10
≤ 12.4 GHz	≤ 1.15
≤ 18 GHz	≤ 1.25
Power	2 W ⁷⁾
Weight	86 g

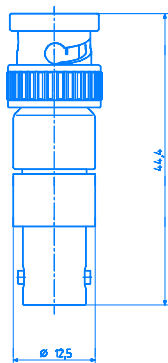
⁷⁾ At maximum 30°C ambient temperature, derated linearly to 0 W at 130°C ambient temperature

SUHNER TEST+MEASUREMENT ATTENUATORS

6 dB/50 Ω

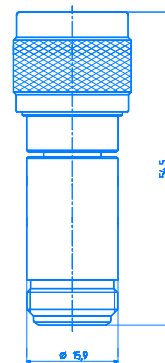
up to 4 GHz

217 Type 6806.01.A



Item	22550178
Interface	BNC(m)-BNC(f)
Attenuation	6 dB
Accuracy	
≤2 GHz	± 0.3 dB
≤4 GHz	± 0.5 dB
Max. freq.	4 GHz
VSWR	
≤2 GHz	≤ 1.10
≤4 GHz	≤ 1.20
Power	2 W ⁷⁾
Weight	25 g

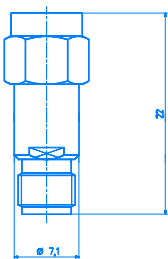
219 Type 6806.17.A



Item	22550183
Interface	N(m) - N(f)
Attenuation	6 dB
Accuracy	
≤8 GHz	± 0.3 dB
≤12.4 GHz	± 0.5 dB
Max. freq.	12.4 GHz
VSWR	
≤4 GHz	≤ 1.10
≤10 GHz	≤ 1.20
≤12.4 GHz	≤ 1.25
Power	2 W ⁷⁾
Weight	69 g

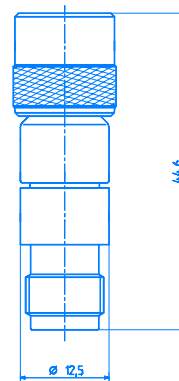
up to 12.4 GHz

218 Type 6606.19.AB



Item	22643203
Interface	SMA(m)-SMA(f)
Attenuation	6 dB
Accuracy	± 0.3 dB
Max. freq.	12.4 GHz
VSWR	
≤ (1.07 + 0.015·f (GHz))	
Power	2 W ⁷⁾
Weight	4 g

220 Type 6806.26.A



Item	22550194
Interface	TNC(m) - TNC(f)
Attenuation	6 dB
Accuracy	
≤4 GHz	± 0.3 dB
≤8 GHz	± 0.5 dB
≤12.4 GHz	± 0.8 dB
Max. freq.	12.4 GHz
VSWR	
≤4 GHz	≤ 1.10
≤8 GHz	≤ 1.20
≤11 GHz	≤ 1.30
≤12.4 GHz	≤ 1.40
Power	2 W ⁷⁾
Weight	30 g

⁷⁾ At maximum 30°C ambient temperature, derated linearly to 0 W at 130°C ambient temperature

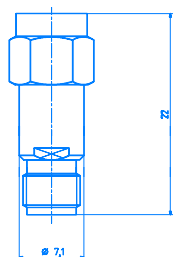
SUHNER TEST+MEASUREMENT ATTENUATORS

6 dB/50 Ω

up to 18 GHz

221

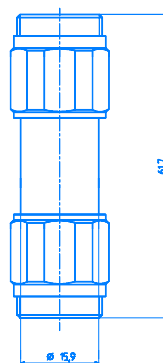
Type **6606.19.AA**



Item	22643202
Interface	SMA(m)-SMA(f)
Attenuation	6 dB
Accuracy	± 0.3 dB
Max. freq.	18 GHz
VSWR	$\leq (1.07 + 0.015 \cdot f \text{ (GHz)})$
Power	2 W ⁷⁾
Weight	4 g

223

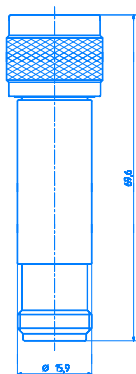
Type **6806.28.A**



Item	22550199
Interface	PC7
Attenuation	6 dB
Accuracy	
≤ 8 GHz	± 0.3 dB
≤ 12.4 GHz	± 0.5 dB
≤ 18 GHz	± 0.8 dB
Max. freq.	18 GHz
VSWR	
≤ 6 GHz	≤ 1.05
≤ 12.4 GHz	≤ 1.10
≤ 18 GHz	≤ 1.20
Power	2 W ⁷⁾
Weight	89 g

222

Type **6806.17.B**



Item	22550189
Interface	N(m)-N(f)
Attenuation	6 dB
Accuracy	
≤ 6 GHz	± 0.3 dB
≤ 12.4 GHz	± 0.5 dB
≤ 18 GHz	± 0.8 dB
Max. freq.	18 GHz
VSWR	
≤ 8 GHz	≤ 1.10
≤ 12.4 GHz	≤ 1.15
≤ 18 GHz	≤ 1.25
Power	2 W ⁷⁾
Weight	86 g

⁷⁾ At maximum 30°C ambient temperature, derated linearly to 0 W at 130°C ambient temperature

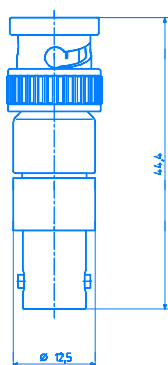
SUHNER TEST+MEASUREMENT ATTENUATORS

10 dB/50 Ω

up to 4 GHz

224

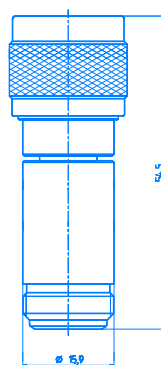
Type 6810.01.A



Item	22550179
Interface	BNC(m)-BNC(f)
Attenuation	10 dB
Accuracy	
≤2 GHz	± 0.3 dB
≤4 GHz	± 0.5 dB
Max. freq.	4 GHz
VSWR	
≤2 GHz	≤ 1.10
≤4 GHz	≤ 1.20
Power	1 W ⁷⁾
Weight	25 g

226

Type 6810.17.A

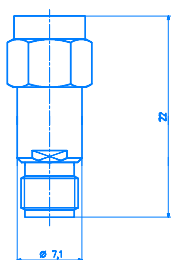


Item	22550185
Interface	N(m) - N(f)
Attenuation	10 dB
Accuracy	
≤8 GHz	± 0.3 dB
≤12.4 GHz	± 0.6 dB
Max. freq.	12.4 GHz
VSWR	
≤4 GHz	≤ 1.10
≤10 GHz	≤ 1.20
≤12.4 GHz	≤ 1.25
Power	1 W ⁷⁾
Weight	69 g

up to 12.4 GHz

225

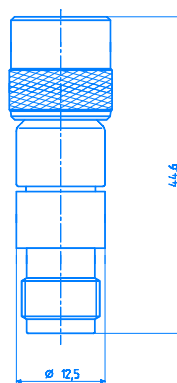
Type 6610.19.AB



Item	22643205
Interface	SMA(m)-SMA(f)
Attenuation	10 dB
Accuracy	± 0.5 dB
Max. freq.	12.4 GHz
VSWR	
≤ (1.07 + 0.015·f (GHz))	
Power	2 W ⁷⁾
Weight	4 g

227

Type 6810.26.A



Item	22550195
Interface	TNC(m) - TNC(f)
Attenuation	10 dB
Accuracy	
≤4 GHz	± 0.3 dB
≤8 GHz	± 0.5 dB
≤12.4 GHz	± 0.8 dB
Max. freq.	12.4 GHz
VSWR	
≤4 GHz	≤ 1.10
≤8 GHz	≤ 1.20
≤11 GHz	≤ 1.30
≤12.4 GHz	≤ 1.40
Max. freq.	1 W ⁷⁾
Max. freq.	30 g

⁷⁾ At maximum 30°C ambient temperature, derated linearly to 0 W at 130°C ambient temperature

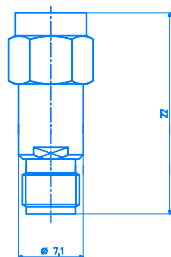
SUHNER TEST+MEASUREMENT ATTENUATORS

10 dB/50 Ω

up to 18 GHz

228

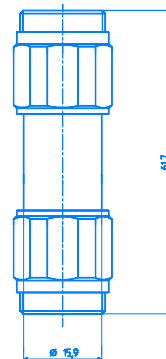
Type 6610.19.AA



Item	22643204
Interface	SMA(m)-SMA(f)
Attenuation	10 dB
Accuracy	± 0.5 dB
Max. freq.	18 GHz
VSWR	≤ (1.07 + 0.015·f (GHz))
Power	2 W ⁷⁾
Weight	4 g

230

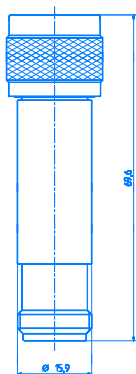
Type 6810.28.A



Item	22550023
Interface	PC7
Attenuation	10 dB
Accuracy	
≤ 8 GHz	± 0.3 dB
≤ 12.4 GHz	± 0.6 dB
≤ 18 GHz	± 0.8 dB
Max. freq.	18 GHz
VSWR	
≤ 6 GHz	≤ 1.05
≤ 12.4 GHz	≤ 1.10
≤ 18 GHz	≤ 1.20
Power	1 W ⁷⁾
Weight	89 g

229

Type 6810.17.B



Item	22550190
Interface	N(m)-N(f)
Attenuation	10 dB
Accuracy	
≤ 6 GHz	± 0.3 dB
≤ 12.4 GHz	± 0.6 dB
≤ 18 GHz	± 0.8 dB
Max. freq.	18 GHz
VSWR	
≤ 6 GHz	≤ 1.10
≤ 12.4 GHz	≤ 1.15
≤ 18 GHz	≤ 1.25
Power	1 W ⁷⁾
Weight	86 g

⁷⁾ At maximum 30°C ambient temperature, derated linearly to 0 W at 130°C ambient temperature

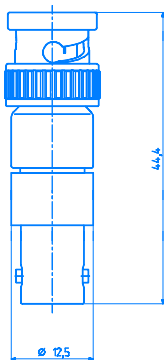
SUHNER TEST+MEASUREMENT ATTENUATORS

20 dB/50 Ω

up to 4 GHz

231

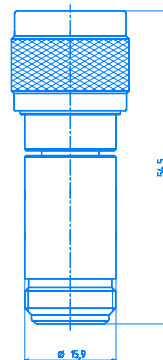
Type 6820.01.A



Item	22550180
Interface	BNC(m)-BNC(f)
Attenuation	20 dB
Accuracy	
≤2 GHz	± 0.5 dB
≤4 GHz	± 1.0 dB
Max. freq.	4 GHz
VSWR	
≤2 GHz	≤ 1.10
≤4 GHz	≤ 1.20
Power	1 W ⁷⁾
Weight	25 g

233

Type 6820.17.A

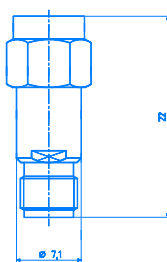


Item	22550186
Interface	N(m) - N(f)
Attenuation	20 dB
Accuracy	
≤4 GHz	± 0.5 dB
≤8 GHz	± 0.6 dB
≤12.4 GHz	± 0.8 dB
Max. freq.	12.4 GHz
VSWR	
≤4 GHz	≤ 1.10
≤10 GHz	≤ 1.20
≤12.4 GHz	≤ 1.25
Power	1 W ⁷⁾
Weight	69 g

up to 12.4 GHz

232

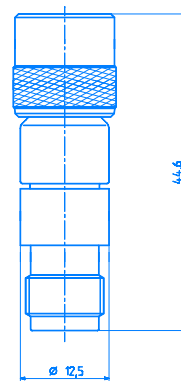
Type 6620.19.AB



Item	22643207
Interface	SMA(m)-SMA(f)
Attenuation	20 dB
Accuracy	± 0.5 dB
Max. freq.	12.4 GHz
VSWR	≤ (1.07 + 0.015·f (GHz))
Power	2 W ⁷⁾
Weight	4 g

234

Type 6820.26.A



Item	22550196
Interface	TNC(m) - TNC(f)
Attenuation	20 dB
Accuracy	
≤4 GHz	± 0.5 dB
≤8 GHz	± 1.0 dB
≤12.4 GHz	± 1.3 dB
Max. freq.	12.4 GHz
VSWR	
≤4 GHz	≤ 1.10
≤8 GHz	≤ 1.20
≤11 GHz	≤ 1.30
≤12.4 GHz	≤ 1.40
Max. freq.	1 W ⁷⁾
Max. freq.	30 g

⁷⁾ At maximum 30°C ambient temperature, derated linearly to 0 W at 130°C ambient temperature

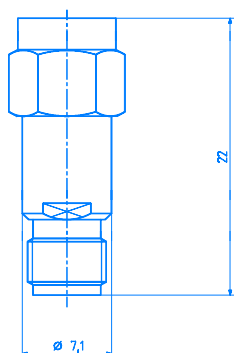
SUHNER TEST+MEASUREMENT ATTENUATORS

20 dB/50 Ω

up to 18 GHz

235

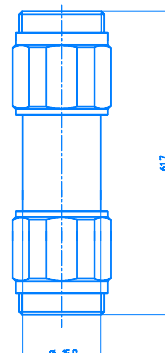
Type **6620.19.AA**



Item	22643206
Interface	SMA(m)-SMA(f)
Attenuation	20 dB
	± 0.5 dB
Accuracy	
Max. freq.	18 GHz
VSWR	≤ (1.07 + 0.015·f (GHz))
Power	2 W ⁷⁾
Weight	4 g

237

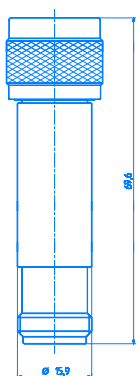
Type **6820.28.A**



Item	22550025
Interface	PC7
Attenuation	20 dB
Accuracy	
≤6 GHz	± 0.5 dB
≤8 GHz	± 0.6 dB
≤12.4 GHz	± 0.8 dB
≤18 GHz	± 1.0 dB
Max. freq.	18 GHz
VSWR	
≤6 GHz	≤ 1.05
≤12.4 GHz	≤ 1.10
≤18 GHz	≤ 1.20
Power	1 W ⁷⁾
Weight	89 g

236

Type **6820.17.B**



Item	22550191
Interface	N(m)-N(f)
Attenuation	20 dB
Accuracy	
≤4 GHz	± 0.5 dB
≤8 GHz	± 0.6 dB
≤12.4 GHz	± 0.8 dB
≤18 GHz	± 1.0 dB
Max. freq.	18 GHz
VSWR	
≤6 GHz	≤ 1.10
≤12.4 GHz	≤ 1.15
≤18 GHz	≤ 1.25
Power	1 W ⁷⁾
Weight	86 g

⁷⁾ At maximum 30°C ambient temperature, derated linearly to 0 W at 130°C ambient temperature

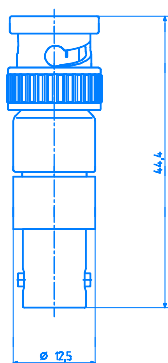
SUHNER TEST+MEASUREMENT ATTENUATORS

30 dB/50 Ω

up to 4 GHz

238

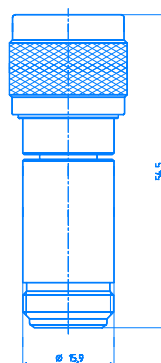
Type **6830.01.A**



Item	22550181
Interface	BNC(m)-BNC(f)
Attenuation	30 dB
Accuracy	
≤4 GHz	± 1.0 dB
Max. freq.	4 GHz
VSWR	
≤2 GHz	≤ 1.10
≤4 GHz	≤ 1.20
Power	1 W ⁷⁾
Weight	25 g

240

Type **6830.17.A**

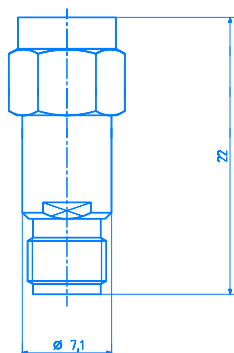


Item	22550187
Interface	N(m) - N(f)
Attenuation	30 dB
Accuracy	
≤12.4 GHz	± 1.0 dB
Max. freq.	12.4 GHz
VSWR	
≤4 GHz	≤ 1.10
≤10 GHz	≤ 1.20
≤12.4 GHz	≤ 1.25
Power	1 W ⁷⁾
Weight	69 g

up to 12.4 GHz

239

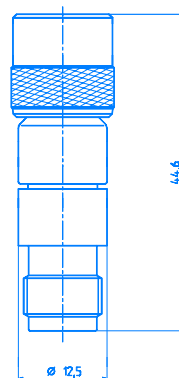
Type **6630.19.AB**



Item	22643209
Interface	SMA(m)-SMA(f)
Attenuation	30 dB
Accuracy	± 1.5 dB
Max. freq.	12.4 GHz
VSWR	
≤ (1.07 + 0.015·f (GHz))	
Power	2 W ⁷⁾
Weight	4 g

241

Type **6830.26.A**



Item	22550197
Interface	TNC(m) - TNC(f)
Attenuation	30 dB
Accuracy	
≤8 GHz	± 1.0 dB
≤12.4 GHz	± 1.3 dB
Max. freq.	12.4 GHz
VSWR	
≤4 GHz	≤ 1.10
≤8 GHz	≤ 1.20
≤11 GHz	≤ 1.30
≤12.4 GHz	≤ 1.40
Power	1 W ⁷⁾
Weight	30 g

⁷⁾ At maximum 30°C ambient temperature, derated linearly to 0 W at 130°C ambient temperature

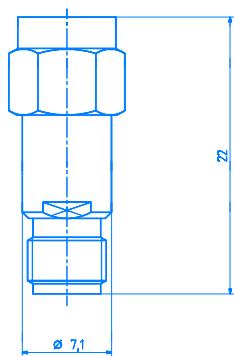
SUHNER TEST+MEASUREMENT ATTENUATORS

30 dB/50 Ω

up to 18 GHz

242

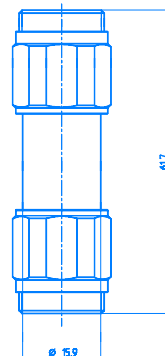
Type **6630.19.AA**



Item	22643208
Interface	SMA(m)-SMA(f)
Attenuation	30 dB
Accuracy	± 1.5 dB
Max. freq.	18 GHz
VSWR	$\leq (1.07 + 0.015 \cdot f \text{ (GHz)})$
Power	2 W ⁷⁾
Weight	4 g

244

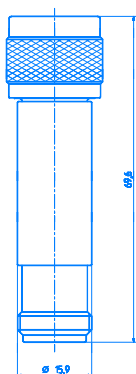
Type **6830.28.A**



Item	22550027
Interface	PC7
Attenuation	30 dB
Accuracy	
≤ 12.4 GHz	± 1.0 dB
≤ 18 GHz	± 1.5 dB
Max. freq.	18 GHz
VSWR	
≤ 6 GHz	≤ 1.05
≤ 12.4 GHz	≤ 1.10
≤ 18 GHz	≤ 1.20
Power	1 W ⁷⁾
Weight	89 g

243

Type **6830.17.B**



Item	22550192
Interface	N(m)-N(f)
Attenuation	30 dB
Accuracy	
≤ 12.4 GHz	± 1.0 dB
≤ 18 GHz	± 1.5 dB
Max. freq.	18 GHz
VSWR	
≤ 6 GHz	≤ 1.10
≤ 12.4 GHz	≤ 1.15
≤ 18 GHz	≤ 1.25
Power	1 W ⁷⁾
Weight	86 g

⁷⁾ At maximum 30°C ambient temperature, derated linearly to 0 W at 130°C ambient temperature